Federation Proceedings

VOLUME 9 *December 1950* NUMBER 4

THIRTY-FIFTH ANNUAL MEETING

CLEVELAND, OHIO

April 29–May 3, 1951

THE 1951 Convention of the Federated Societies will be held in Cleveland, Ohio, April 29 to May 3. The scientific sessions of the six constituent Societies will begin at 9:00 A.M., Monday, April 30, in the Public Auditorium and will continue through Thursday afternoon, May 3.

Saturday and Sunday, April 28 and 29, will be devoted to meetings of the Society Councils, the Federation Executive Committee and other committees. The Federation Joint Session will be Monday evening, April 30, in the Music Hall of the Auditorium.

Please note that the Federation scientific sessions have been advanced by one day, beginning on Monday rather than Tuesday as in previous years.

REGISTRATION INFORMATION

Registration will open at 9:00 A.M., Sunday, April 29, in the Main Lobby of the Public Auditorium and will remain open until 10:00 P.M. Registration desks will be open from 8:00 A.M. to 5:00 P.M., Monday, Tuesday, Wednesday, and Thursday. Since the scientific sessions begin at 9:00 A.M. on Monday, members are urged to complete registration on Sunday if possible. Members of the constituent Societies, guests, and other biologists and physicians who wish to attend the meetings may register. The official badge issued at the registration desk must be worn to secure admission to the scientific sessions and other activities of the Convention. There will be a separate registration desk for ladies and nonprofessional guests. Programs, abstracts and tickets for various special functions will be on sale near the registration desk.

HEADQUARTERS HOTELS

Hotel Statler: American Physiological Society, American Society for Pharmacology and Experimental Therapeutics, American Society for Experimental Pathology.

Hotel Cleveland: American Society of Biological Chemists, American Institute of Nutrition, American Association of Immunologists.

Information on hotels and rates and the forms for making reservations will be distributed to members by the Society Secretaries.

EXHIBITS

Industrial Scientific Exhibits as well as Member and Institutional Exhibits will all be located on the Main Arena Floor of the Public Auditorium. Exhibits inspection periods will be as follows: Sunday, April 29, 2:00 P.M.–8:00 P.M.; Monday, Tuesday and Wednesday, April 30, May 1 and 2, 8:00 A.M.–5:00 P.M.; Thursday, May 3, 8:00 A.M.–1:00 P.M. The exhibits are officially closed Thursday at 1:00 P.M.

Due to the great interest which our members and guests have shown and expressed in the exhibits sections since their inauguration at the 1947 meeting, the Exhibits Committee for the 1951 meeting has given much thought to the screening and selection of exhibitors so as to provide exhibits of diversified interest for all our members and guests.

Three manufacturers of soft drinks and cigarettes will provide lounges on the Arena Floor for the convenience of all visitors and will serve complimentary refreshments.

PLACEMENT SERVICE

An office of the Placement Service of the Federation will be located in the South Hall one flight down from the Arena Floor. Applicants for positions should write to the Federation Placement Service, 2101 Constitution Avenue, Washington 25, D. C., for application forms to be returned not later than April 15, 1951. Applicants who have previously filed forms with the Service are requested to notify the office and to send additional data not later than April 15, 1951. The application forms, comprising a résumé of education, training, experience, publications and type of position desired, will be on file at the Placement Service office.

Agencies seeking personnel should write to the Federation Placement Service for employers' registration cards on which to describe the positions and to record the Cleveland addresses. The cards should be returned to the Federation office not later than April 15, 1951. Employers who have previously filed cards should notify the office of their Cleveland address not later than April 15.

MOTION PICTURES

Motion pictures will be shown at one session, to be scheduled in the program. The title and ab-

stract of the film must be submitted to the Society Secretaries. Only 16-mm. safety film can be shown; equipment for sound projection will be available.

DINNERS AND LUNCHEONS

There will be ample facilities for holding group breakfasts, luncheons and dinners. It is advantageous to schedule all of these through the Federation Secretary's office. Members and groups desiring to schedule these functions should make their plans early and inform the Federation Secretary of their requirements before March 15, 1951. Specifications should include attendance expected, desirable time and alternatives, conflicts to be avoided, and screen and lantern requirements for the discussion session following the meal.

FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY

EXECUTIVE COMMITTEE, 1950–1951

D. B. DILL, R. W. GERARD, American Physiological Society
H. B. VICKERY, E. H. STOTZ, American Society of Biological Chemists
CARL F. SCHMIDT, H. B. HAAG, American Society for Pharmacology and Experimental Therapeutics
JAMES F. RINEHART, SIDNEY C. MADDEN, American Society for Experimental Pathology
W. H. GRIFFITH, J. H. ROE, American Institute of Nutrition
GEOFFREY EDSALL, JULES FREUND, American Association of Immunologists
GEOFFREY EDSALL, *Chairman*, Boston Univ. School of Medicine, Boston, Mass.
C. G. KING, *Ex-Chairman*
M. O. LEE, *Federation Secretary*, 2101 Constitution Ave., Washington, D. C.

STANDING COMMITTEES

Promotion of Biological Research: A. C. IVY, *Chairman;* K. F. MEYER, EPHRAIM SHORR.

Secretaries Committee: JULES FREUND, *Chairman*, Immunology; R. W. GERARD, Physiology; E. H. STOTZ, Biochemistry; H. B. HAAG, Pharmacology; S. C. MADDEN, Pathology; J. H. ROE, Nutrition.

Federation Finance Committee: C. G. KING, *Chairman*; S. C. MADDEN, W. O. FENN, GEOFFREY EDSALL, *ex officio*.

FORMER EXECUTIVE COMMITTEES

Philadelphia, Dec. 28–31, 1913

S. J. MELTZER, *Chairman* AND A. J. CARLSON, *Secretary*, The Physiological Society. A. B. MACALLUM and P. A. SHAFFER, The Biochemical Society. T. SOLLMANN and J. AUER, The Pharmacological Society.

St. Louis, Dec. 27–30, 1914

G. LUSK, *Chairman*, and P. A. SHAFFER, *Secretary*, The Biochemical Society. T. SOLLMANN and J. AUER, The Pharmacological Society. R. M. PEARCE and G. H. WHIPPLE, The Pathological Society. W. B. CANNON and A. J. CARLSON, The Physiological Society.

Boston, Dec. 26–29, 1915

TORALD SOLLMANN, *Chairman*, and JOHN AUER, *Secretary*, The Pharmacological Society. THEOBALD SMITH and PEYTON ROUS, The Pathological Society. W. B. CANNON and C. W. GREENE, The Physiological Society. WALTER JONES and P. A. SHAFFER, The Biochemical Society.

New York, Dec. 27–30, 1916

SIMON FLEXNER, *Chairman*, and PEYTON ROUS, *Secretary*, The Pathological Society. W. B. CANNON and C. W. GREENE, The Physiological Society. WALTER JONES and STANLEY R. BENEDICT, The Biochemical Society. REID HUNT and J. AUER, The Pharmacological Society.

Minneapolis-Rochester, Dec. 27–29, 1917

FREDERIC S. LEE, *Chairman*, and CHARLES W. GREENE, *Secretary*, The Physiological Society. CARL L. ALSBERG, and STANLEY R. BENEDICT, The Biochemical Society. REID HUNT and L. G. ROWNTREE, The Pharmacological Society. LUDVIG HEKTOEN and HOWARD T. KARSNER, The Pathological Society.

Baltimore, April 24–26, 1918

CARL L. ALSBERG, *Chairman*, and STANLEY R. BENEDICT, *Secretary*, The Biochemical Society. REID HUNT and E. D. BROWN, The Pharmacological Society. H. GIDEON WELLS and HOWARD T. KARSNER, The Pathological Society. FREDERIC S. LEE and CHARLES W. GREENE, The Physiological Society.

Cincinnati, Dec. 29–31, 1919

A. S. LOEVENHART, *Chairman*, and E. D. BROWN, *Secretary*, The Pharmacological Society. W. G. MACCALLUM and HOWARD T. KARSNER, The Pathological Society. WARREN P. LOMBARD and CHARLES W. GREENE, The Physiological Society. STANLEY R. BENEDICT and VICTOR C. MYERS, The Biochemical Society.

Chicago, Dec. 28–30, 1920

WILLIAM H. PARK, *Chairman* and HOWARD T. KARSNER, *Secretary*, The Pathological Society. WARREN P. LOMBARD and CHARLES W. GREENE, The Physiological Society. STANLEY R. BENEDICT and VICTOR C. MYERS, The Biochemical Society. A. S. LOEVENHART and EDGAR D. BROWN, The Pharmacological Society.

New Haven, Dec. 28–30, 1921

J. J. MACLEOD, *Chairman*, and CHARLES W. GREENE, *Secretary*, The Physiological Society. D. D. VAN SLYKE and VICTOR C. MEYERS, The Biochemical Society. C. W. EDMUNDS and EDGAR D. BROWN, The Pharmacological Society. F. G. NOVY and WADE H. BROWN, The Pathological Society.

Toronto, Dec. 27–29, 1922

D. D. VAN SLYKE, *Chairman*, and VICTOR C. MYERS, *Secretary*, The Biochemical Society. C. W. EDMUNDS and EDGAR D. BROWN, The Pharmacological Society. HOWARD T. KARSNER and WADE H. BROWN, The Pathological Society. J. J. R. MACLEOD and CHARLES W. GREENE, The Physiological Society.

St. Louis, Dec. 27–29, 1923

C. W. EDMUNDS, *Chairman*, and EDGAR D. BROWN, *Secretary*, The Pharmacological Society. E. L. OPIE and WADE H. BROWN, The Pathological Society. A. J. CARLSON and CHARLES W. GREENE, The Physiological Society. PHILIP A. SHAFFER and VICTOR C. MYERS, The Biochemical Society.

Washington, Dec. 29–31, 1924

ALFRED S. WARTHIN, *Chairman*, and E. B. KRUMBHAAR, *Secretary*, The Pathological Society. A. J. CARLSON and WALTER J. MEEK, The Physiological Society. P. A. SHAFFER and D. WRIGHT WILSON, The Biochemical Society. JOHN AUER and E. D. BROWN, The Pharmacological Society.

Cleveland, Dec. 28–30, 1925

A. J. CARLSON, *Chairman*, and WALTER J. MEEK, *Secretary*, The Physiological Society. H. C. SHERMAN and D. WRIGHT WILSON, The Biochemical Society. JOHN AUER and E. D. BROWN, The Pharmacological Society. GEORGE H. WHIPPLE and E. B. KRUMBHAAR, The Pathological Society.

Rochester, N. Y., April 14–16, 1927

E. C. KENDALL, *Chairman*, and F. C. KOCH, *Secretary*, The Biochemical Society. JOHN AUER and E. D. BROWN, The Pharmacological Society. W. H. BROWN and E. B. KRUMBHAAR, The Pathological Society. J. ERLANGER and W. J. MEEK, The Physiological Society.

Ann Arbor, April 12–14, 1928

CARL VOEGTLIN, *Chairman*, and E. D. BROWN, *Secretary*, The Pharmacological Society. DAVID MARINE and CARL V. WELLER, The Pathological Society. JOSEPH ERLANGER and WALTER J. MEEK, The Physiological Society. E. V. MCCOLLUM and D. WRIGHT WILSON, The Biochemical Society.

Boston, Aug. 19–24, 1929

(The XIIIth International Physiological Congress)

EDWARD B. KRUMBHAAR, *Chairman*, and CARL V. WELLER, *Secretary*, The Pathological Society. JOSEPH ERLANGER and WALTER J. MEEK, The Physiological Society. E. V. MCCOLLUM and D. WRIGHT WILSON, The Biochemical Society. CARL VOEGTLIN and E. D. BROWN, The Pharmacological Society.

Chicago, March 26–29, 1930

WALTER J. MEEK, *Chairman*, and ALFRED C. REDFIELD, *Secretary*, The Physiological Society. W. R. BLOOR and HOWARD B. LEWIS, The Biochemical Society. CARL VOEGTLIN and E. D. BROWN, The Pharmacological Society. WILLIAM F. PETERSEN and CARL V. WELLER, The Pathological Society.

Montreal, April 8–11, 1931

W. R. BLOOR, *Chairman*, and H. B. LEWIS, *Secretary*, The Biochemical Society. GEORGE B. WALLACE and E. D. BROWN, The Pharmacological Society. FREDERICK L. GATES and C. PHILLIP MILLER, The Pathological Society. WALTER J. MEEK and ARNO S. LUCKHARDT, The Physiological Society.

Philadelphia, April 27–30, 1932

GEORGE B. WALLACE, *Chairman*, and V. E. HENDERSON, *Secretary*, The Pharmacological Society. SAMUEL R. HAYTHORN and C. PHILLIP MILLER, The Pathological Society. WALTER J. MEEK and ARNO B. LUCKHARDT, The Physiological Society. H. C. BRADLEY and HOWARD B. LEWIS, The Biochemical Society.

Cincinnati, April 10–12, 1933

PEYTON ROUS, *Chairman*, and C. PHILLIP MILLER, *Secretary*, The Pathological Society. ARNO B. LUCKHARDT and FRANK C. MANN, The Physiological Society. H. C. BRADLEY and

HOWARD B. LEWIS, The Biochemical Society. WM. DEB. MACNIDER and V. E. HENDERSON, The Pharmacological Society.

New York, March 28–31, 1934

ARNO B. LUCKHARDT, *Chairman*, FRANK C. MANN, *Secretary*, and ALEXANDER FORBES, *Treasurer*, The Physiological Society. W. M. CLARK and H. A. MATTILL, The Biochemical Society. W. DEB. MACNIDER and V. E. HENDERSON, The Pharmacological Society. CARL V. WELLER and C. PHILLIP MILLER, The Pathological Society.

Detroit, April 10–13, 1935

W. M. CLARK, *Chairman*, H. A. MATTILL, *Secretary*, and C. H. FISKE, *Treasurer*, The Biochemical Society. CHARLES W. GREENE and FRANK C. MANN, The Physiological Society. R. A. HATCHER and E. M. K. GEILING, The Pharmacological Society. S. BURT WOLBACH and SHIELDS WARREN, The Pathological Society.

Washington, March 25–28, 1936

V. E. HENDERSON, *Chairman*, E. M. K. GEILING, *Secretary*, and C. M. GRUBER, *Treasurer*, The Pharmacological Society. FRANK C. MANN and ANDREW C. IVY, The Physiological Society. H. B. LEWIS and H. A. MATTILL, The Biochemical Society. OSKAR KLOTZ and SHIELDS WARREN, The Pathological Society.

Memphis, April 21–24, 1937

ALPHONSE R. DOCHEZ, *Chairman*, and SHIELDS WARREN, The Pathological Society. FRANK C. MANN and ANDREW C. IVY, The Physiological Society. HOWARD B. LEWIS and H. A. MATTILL, The Biochemical Society. V. E. HENDERSON and E. M. K. GEILING, The Pharmacological Society. D. R. HOOKER, *Secretary*.

Baltimore, March 30–April 2, 1938

WILLIAM T. PORTER, *Honorary President;* WALTER E. GARREY, *Chairman*, and ANDREW C. IVY, The Physiological Society. GLENN E. CULLEN and H. A. MATTILL, The Biochemical Society. ARTHUR L. TATUM and G. PHILIP GRABFIELD, The Pharmacological Society. C. PHILLIP MILLER and PAUL R. CANNON, The Pathological Society. D. R. HOOKER, *Secretary*.

Toronto, April 26–29, 1939

GLENN E. CULLEN, *Chairman*, and CHARLES G. KING, The Biochemical Society. ARTHUR L. TATUM and G. PHILIP GRABFIELD, The Pharmacological Society. C. PHILLIP MILLER and PAUL R. CANNON, The Pathological Society. WALTER E. GARREY and ANDREW C. IVY, The Physiological Society. D. R. HOOKER, *Secretary*.

New Orleans, March 13–16, 1940

E. M. K. GEILING, *Chairman*, and G. PHILIP GRABFIELD, The Pharmacological Society. ERNEST W. GOODPASTURE and PAUL R. CANNON, The Pathological Society. ANDREW C. IVY and PHILIP BARD, The Physiological Society. WILLIAM C. ROSE and CHARLES G. KING, The Biochemical Society. D. R. HOOKER, *Secretary*.

Chicago, April 15–19, 1941

SHIELDS WARREN, *Chairman*, and H. P. SMITH, The Pathological Society. THORNE M. CARPENTER and L. A. MAYNARD, The Institute of Nutrition. ANDREW C. IVY and PHILIP BARD, The Physiological Society. WILLIAM C. ROSE and CHARLES G. KING, The Biochemical Society. E. M. K. GEILING and G. PHILIP GRABFIELD, The Pharmacological Society. D. R. HOOKER, *Secretary*.

Boston, March 31–April 4, 1942

ALBERT G. HOGAN, *Chairman*, and ARTHUR H. SMITH, The Institute of Nutrition. PHILIP BARD and CARL J. WIGGERS, The Physiological Society. RUDOLPH J. ANDERSON and ARNOLD K. BALLS, The Biochemical Society. E. M. K. GEILING and R. N. BIETER, The Pharmacological Society. JESSE L. BOLLMAN and H. P. SMITH, The Pathological Society. SHIELDS WARREN, *Ex-Chairman*. D. R. HOOKER, *Secretary*.

1943, 1944, 1945: The meetings scheduled for Cleveland were cancelled because of war conditions

PHILIP BARD, *Chairman*, and WALLACE O. FENN, The Physiological Society. E. A. DOISY and ARNOLD K. BALLS, The Biochemical Society. E. K. MARSHALL, JR. and RAYMOND N. BIETER, The Pharmacological Society. BALDUIN LUCKÉ and H. P. SMITH, The Pathological Society. LEONARD A. MAYNARD and ARTHUR H. SMITH, The Institute of Nutrition. JACQUES J. BRONFENBRENNER and ARTHUR F. COCA, The Association of Immunologists. D. R. HOOKER, *Secretary*.

Atlantic City, March 11–15, 1946

PHILIP BARD, *Chairman*; WALLACE O. FENN, The Physiological Society. A. BAIRD HASTINGS and ARNOLD K. BALLS, The Biochemical Society. ERWIN E. NELSON and RAYMOND N. BIETER, The Pharmacological Society. BALDUIN LUCKÉ and H. P. SMITH, The Pathological Society. WILLIAM C. ROSE and H. E. CARTER, The Institute of Nutri-

tion. JACQUES J. BRONFENBRENNER and ARTHUR F. COCA, The Association of Immunologists. D. R. HOOKER, *Secretary*.

Chicago, May 18–22, 1947

A. BAIRD HASTINGS, *Chairman*, and OTTO A. BESSEY, The Biochemical Society. MAURICE H. SEEVERS and HARVEY B. HAAG, The Pharmacological Society. PAUL R. CANNON and FRIEDA S. ROBSCHEIT-ROBBINS, The Pathological Society. AATHUR H. SMITH and H. E. CARTER, The Institute of Nutrition. MICHAEL HEIDELBERGER and ARTHUR F. COCA, The Association of Immunologists. WALLACE O. FENN and MAURICE B. VISSCHER, The Physiological Society. WILLIAM H. CHAMBERS, *Secretary*.

Atlantic City, March 15–19, 1948

MAURICE H. SEEVERS, *Chairman*, and HARVEY B. HAAG, The Pharmacological Society. DOUGLAS H. SPRUNT and FRIEDA S. ROBSCHEIT-ROBBINS, The Pathological Society. R. M. BETHKE and H. E. CARTER, The Institute of Nutrition. LLOYD D. FELTON and ARTHUR F. COCA, The Association of Immunologists. WALLACE O. FENN and MAURICE B. VISSCHER, The Physiological Society. HANS T. CLARKE and OTTO A. BESSEY, The Biochemical Society. WILLIAM H. CHAMBERS, *Secretary*.

Detroit, April 18–22, 1949

H. P. SMITH, *Chairman*, and FRIEDA S. ROBSCHEIT-ROBBINS, The Pathological Society. E. M. NELSON and J. H. ROE, The Institute of Nutrition. MICHAEL HEIDELBERGER and JULES FREUND, The Association of Immunologists. MAURICE B. VISSCHER and D. B. DILL, The Physiological Society. HANS T. CLARKE and OTTO A. BESSEY, The Biochemical Society. CARL A. DRAGSTEDT and HARVEY B. HAAG, The Pharmacological Society. M. O. LEE, *Federation Secretary*.

Atlantic City, April 17–21, 1950

C. G. KING, *Chairman*, and J. H. ROE, The Institute of Nutrition. THOMAS FRANCIS, JR., and JULES FREUND, The Association of Immunologists. CARL J. WIGGERS and D. B. DILL, The Physiology Society. CARL F. CORI and RICHARD W. JACKSON, The Biochemistry Society. CARL F. SCHMIDT and H. B. HAAG, The Pharmacology Society. JOHN G. KIDD and SIDNEY C. MADDEN, The Pathology Society. M. O. LEE, *Federation Secretary*.

FEDERATION BY-LAWS

BY-LAWS

Adopted at the Washington Meeting, 1936, *and amended at the Boston Meeting*, 1942

1. The Presidents and Secretaries of the Constituent Societies, the Chairman of the Executive Committee of the preceding year and the Federation Secretary shall form the Executive Committee of the Federation.

2. The Chairmanship of the Executive Committee shall be held in turn by the Presidents of the Constituent Societies, who shall succeed one another annually in the order of seniority of the Societies.

3. The Executive Committee shall appoint annually from the membership of the Federation a Secretary-Treasurer, to be known as the Federation Secretary.

4. The Federation Secretary shall: (a) Keep the minutes of the Executive Committee and distribute copies to the Secretaries of the Constituent Societies. (b) Make arrangements for the Annual Meeting with the Local Committee, with the approval of the Executive Committee. (c) Print in convenient combined form and distribute to the membership of the Federation the programs of the Constituent Societies as received from their respective Secretaries. (d) Undertake such other duties to be decided upon from time to time by the Executive Committee, as do not conflict with the complete autonomy of the Constituent Societies.

5. The Executive Committee shall control all monies in the hands of the Federation Secretary, who shall make an annual report to the Executive Committee for audit and approval. The expenses of the Federation Secretary, as authorized by the Executive Committee, shall be the first charge on such monies and if insufficient for the purpose the Executive Committee shall prorate such expenses to the Constituent Societies of the Federation in proportion to their respective memberships.

The Executive Committee may appropriate Federation monies annually for the uses of Local Committees and for the uses of other authorized Committees but in the latter cases an audit of expenditures shall be made and approved before such committees are discharged.

6. The Executive Committee shall determine the place of the Annual Meeting, and the time shall be determined by the Local Committee, preferably within the period of March fifteenth to May first.

7. The Local Committee at the place of meeting of the Federation shall charge such fee for registration as may be approved by the Executive Committee. The monies thus collected shall be used to defray the expenses of the Local Com-

mittee and the remainder, after such expenses have been met, shall be turned over to the Federation Secretary.

8. The Executive Committee shall consider measures of advantage to the Federation as a whole. Any Constituent Society may refer similar measures to the Executive Committee. No action, however, shall be taken by the Executive Committee unless specifically authorized by all the Constituent Societies.

9. The Chairman of the Executive Committee may appoint committees when the purposes of such committees have been approved by all the Constituent Societies of the Federation. Such committees shall be appointed for a term of one year, but may be continued and their members reappointed. Such committees shall report in writing to the Executive Committee, which shall in turn report thereon to the Constituent Societies either for information or recommendation. The Secretaries of the Constituent Societies shall report the recommendations of their respective Societies to the Executive Committee for final action.

10. All individuals whose names appear on the program by invitation or introduction and those registering from any recognized biological laboratory may be enrolled as Associate Members of the Federation for that Annual Meeting. Such Associate Members may enjoy all the privileges of the Annual Meeting except that of voting.

11. No person may present orally more than one paper during all of the scientific sessions of the Constituent Societies at the time of the Annual Meeting except upon invitation of the Executive Committee or a Council. Papers must be submitted to the Secretary of the Society of which the proposer is a member. The proposer may request transfer to another program, but this may only be done with the consent of the Secretary of the Society concerned. Any Secretary who regards any paper submitted to him as better suited to the program of another Society may arrange this transfer with the Secretary of the Society concerned, if it be possible. Such transfer shall be indicated on the program.

12. Abstracts not to exceed two hundred and fifty words in length, of papers approved for presentation at all of the scientific sessions of all the Constituent Societies at the Annual Meeting, shall receive publication in the *Federation Proceedings*.

13. A Control Committee, consisting of at least one representative of each Constituent Society as designated by the several Councils, shall have editorial control over the *Federation Proceedings* which shall be financed as required by an annual assessment of all the members of each Constituent Society.

14. The Control Committee shall have power to choose certain additional papers presented at the Annual Meetings and from other sources, including material heretofore published in the Federation Yearbook, for publication in the *Federation Proceedings*.

PROPOSED FEDERATION CONSTITUTION AND BY-LAWS

To the Members of the Constituent Societies:

The Federation Executive Committee in 1948 appointed a committee (W. H. Chambers, M. O. Lee and the Society Secretaries) to prepare a draft of a Constitution and a revision of the By-Laws of the Federation. The draft was submitted previous to the 1950 Spring meeting to the Executive Committee, which made various changes and submitted it as a proposed Constitution and By-Laws to the constituent Societies for their consideration. The Executive Committee then voted to publish the proposed Constitution and By-Laws, with further changes suggested by the Societies, in *Federation Proceedings*, so that the members of each Society could examine it before their Society takes action.

In the draft below, certain provisions are given in an alternative form as the result of suggestions that have not yet had consideration by the whole Executive Committee. At the coming 1951 Federation meeting these and other suggestions will be considered by the Federation Executive Committee and a final form of the proposed Constitution and By-Laws may be referred to the Societies for their action as to adoption.

Suggestions for changes or additions are solicited and may be sent to the Secretary of your Society or to the Federation Secretary.

CONSTITUTION

ARTICLE I. *Name*

The name of this organization is the FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY.

ARTICLE II. *Purpose*

(*Alternative 1*) The purposes of the Federation are: to bring together investigators in the biological and medical sciences in the fields repre-

sented by its constituent Societies and to disseminate information on the results of biological and medical research through publications and scientific meetings.

(*Alternative 2*) The objects of the Federation are: to bring together investigators in the biological and medical sciences in the fields represented by the member Societies; to disseminate information on the results of biological research through publications and scientific meetings; and to serve such other purposes as may be approved by the member Societies.

[*Alternative 2* is proposed in order to permit the continuation of such Federation activities as the Placement Service.]

Article III. *Membership*

Section 1. The constituent members of the Federation are: The American Physiological Society, Inc.; American Society of Biological Chemists, Inc.; American Society for Pharmacology and Experimental Therapeutics, Inc.; The American Society for Experimental Pathology, Inc.; American Institute of Nutrition, Inc.; The American Association of Immunologists.

Section 2. Other Societies in the field of experimental biological science, whose purposes are consonant with those of the Federation, may upon application for membership be admitted, but only by the unanimous consent of the Societies that are members of the Federation at the time of such application.

Any constituent Society may withdraw from membership in the Federation one year following written notification to each of the other constituent Societies of its intention to discontinue membership.

Article IV. *Management*

(*Alternative 1*) The general management of the Federation shall be vested in a Federation Council consisting of the President and Secretary of each constituent Society and the Chairman of the Federation Council for the preceding year.

The Chairmanship of the Federation Council shall be held in turn by the Presidents of the constituent Societies, who shall succeed one another annually in the order of seniority of the Societies in the Federation.

(*Alternative 2*) The general management of the Federation shall be vested in a Federation Council consisting of a Chairman and the President and Secretary of each member Society.

Each Society, in its turn as determined by seniority in the Federation shall furnish for a one-year term the Federation Council Chairman, who shall have been the President of that Society during the preceding year.

[The intent of *Alternative 2* is to insure that the Chairman of the Federation Council shall have served at least one year as a member of the Council previous to becoming its Chairman.]

Article V. *Amendments*

Amendments to the Constitution may be entertained only when presented by a constituent Society. Any constituent Society may propose amendments to the Constitution to the Federation Council at any annual meeting. If the proposed amendment is approved by a majority of the members of the Federation Council, it shall be published in the *Federation Proceedings* and referred to the constituent Societies for ratification at the next annual meeting. The proposed amendment shall be adopted if it is ratified by all of the constituent Societies within a period of two years after its publication.

(*Alternative 1*) By-laws may be adopted, amended or repealed at any annual meeting by the approval of all of the constituent Societies.

(*Alternative 2*) By-laws may be adopted, amended or repealed at any annual meeting by the approval of a majority of the constituent Societies.

BY-LAWS

Article I. *The Federation Council*

Section 1. The Federation Council shall consider matters affecting the Federation as a whole and matters referred to it by any constituent Society.

Section 2. The Federation Council shall appoint annually from the membership of the constituent Societies a Secretary-Treasurer, to be known as the Federation Secretary, who may present matters to the Federation Council for decision at its executive sessions or by mail, but who shall not be entitled to vote. The Federation Secretary shall be compensated as an employee of the Federation.

Section 3. The Federation Council shall control all monies of the Federation. It shall determine the annual Federation assessment per member of the constituent Societies. The assessment shall be applied to the total membership of each Society as of July 1 of each year and shall be due the Federation on that date. The Federation Council shall set the subscription rates of Federation publications after considering the recommendations of the Managing Editor, and shall set the fees of the Placement Service. The Federation Council may appropriate Federation monies for the use of its authorized committees and for other purposes of the Federation.

Section 4. The Federation Council shall determine the time and place of the Annual Meeting

upon recommendation of the Federation Secretary. The suggested time shall be during the second, third or fourth week of April.

SECTION 5. *Method of Voting.* Questions and motions, except those pertaining to Article III, and Article V of the Constitution, put to the Federation Council shall be decided by one of the following three methods:

(a) By majority vote of the members of the Federation Council present. The presence of nine members representing four or more Societies shall constitute a quorum.

(b) By vote by Societies, whereby the two representatives of each Society shall cast a single ballot on behalf of their Society, and a unanimous vote shall be necessary for approval.

(c) By vote of Societies, whereby the matter shall be referred to the Societies for decision. In such case the vote of each Society shall be reported to the Federation Council and recorded. Approval by all of the member Societies shall be necessary for action by the Federation Council.

The method prescribed under (a) of this section shall be followed on all questions in executive session or by mail ballot, unless the two representatives of any Society jointly request that method (b) or (c) of this section be followed. If requests by the representatives of two or more Societies differ as to whether method (b) or (c) shall be used, the method prescribed in (c) shall be followed.

(*Alternative:* Omit the words "or by mail ballot" in the last paragraph of Section 5 and add the following as a new paragraph at the end of Section 5.)

Matters referred to the Federation Council for vote by mail ballot shall require unanimous approval if there has been no opportunity for discussion; if such opportunity has been provided either in a Council session or by mail, a majority vote shall prevail unless alternate method (*b*) or (*c*) of voting is requested. In either case a mail vote shall require at least nine replies.

SECTION 6. In the absence of the Chairman of the Federation Council at any meeting, the Past-Chairman shall preside. In the absence of the President and/or Secretary of a Society, that Society may authorize a designated alternate to represent it. (*Alternative*) Change "Past-Chairman" in Section 6 to "prospective Chairman."

ARTICLE II. *Federation Secretary*

The Federation Secretary shall act as Secretary to the Federation Council and be responsible for all Federation records; he shall act as Treasurer of the Federation and shall submit to the Federation Council not later than February of each year financial statements for the previous calendar year, audited by a reputable firm of certified public accountants; he shall be responsible for making the arrangements for the Annual Meeting of the Federation; he shall act as managing editor of the publications of the Federation and be responsible for their business management and for carrying out the editorial policies; he shall supervise the Federation Placement Service and make an annual report on its activity to the Federation Council; he shall perform such other duties as may be prescribed by the Federation Council and which do not conflict with the constitution and by-laws of the constituent Societies.

ARTICLE III. *Committees and Representatives*

SECTION 1. The Chairman of the Federation Council shall appoint members of Standing Committees (except the Secretaries Committee), representatives of the Federation to other organizations, and members of such other committees as may be designated by the Federation Council. Members of the committees shall be appointed for specific terms and may be reappointed. Committees shall report in writing through their Chairmen to the Federation Council, which shall in turn report thereon to the constituent Societies for their information, recommendation or action. Any committee using authorized funds of the Federation for its purposes shall have an audit of its expenditures made and approved before it is discharged.

SECTION 2. A Secretaries Committee composed of the Secretaries of the constituent Societies and the Federation Secretary shall be a standing Committee of the Federation. This committee shall meet at the call of the Federation Secretary and shall be responsible for arranging the program of the annual meeting, for setting, upon the recommendation of the Federation Secretary, the registration fees for the annual meeting, and for such other duties as the Federation Council may designate.

(*Alternative 1*) The Chairman of the Secretaries Committee shall be the Secretary of the Society whose President is the Chairman of the Federation Council.

(*Alternative 2*) The Chairman of the Secretaries Committee shall be the Secretary of the Society which furnishes the Chairman of the Federation Council.

ARTICLE IV. *Meetings*

SECTION 1. The Federation shall hold an Annual Meeting for the presentation of papers at the scientific sessions of the constituent Societies and the general sessions of the Federation, and for the transaction of business by the Federation Council.

SECTION 2. No person may present orally more than one paper during all of the scientific sessions

of the constituent Societies at the Annual Meeting, except upon invitation of the Chairman of the Federation Council or the Council of a Society. The oral presentation of any paper shall be by the first-named author except by permission of the Secretary of the Society concerned. (*Alternative*) Omit the preceding sentence. Each Society may make such additional restrictions on its program as it desires.

SECTION 3. Papers to be read at the annual meeting of the Federation must be submitted to the Secretary of a Society of which the proposer of the paper is a member. A member of a constituent Society may invite non-members to appear as co-authors of a paper with him, or he may propose a paper by non-member authors whom he introduces.

SECTION 4. Each Society shall have responsibility for selecting and arranging its scientific program provided the general regulations of the Federation are followed.

The authors of a paper may request its transfer to the program of another Society, but this may be done only with the consent of the Secretaries of the two Societies concerned. Secretaries on their own initiative may transfer papers from the program of one Society to that of another. All transfers of papers shall be indicated in the program.

SECTION 5. The abstracts of papers read at the scientific sessions of all of the constituent Societies at the annual meeting shall be published in *Federation Proceedings*. Abstracts shall not exceed 275 words in total length, inclusive of titles, authors' names, laboratory and place of origin.

ARTICLE V. *Publications*

SECTION 1. The official publications of the Federation shall be the *Federation Proceedings* and such other publications as the Federation Council may authorize. *Federation Proceedings* shall be owned and published quarterly by the Federation under the supervision of th meanaging editor and the Secretaries Committee. The March issue shall consist of Part I, containing the abstracts of papers presented or read by title at the Annual Meeting and Part II, the Program of the Annual Meeting. The June and September issues shall contain the papers from the Joint Session and Symposia, and other special papers as may be selected by the Secretaries Committee. The December issue shall contain the annual membership list and matters of interest to the constituent Societies.

ARTICLE VI. *Placement Service*

The Federation shall maintain a Placement Service, under the supervision of the Federation Secretary, the function of which shall be to assist in the placing of professional biologists in suitable positions with universities, hospitals, research foundations, industrial research and other organizations seeking such personnel.

PLACEMENT SERVICE

The Federation maintains a service to act as a medium of communication between persons seeking positions for teaching or research and institutions that wish to fill vacancies in these sciences.

The service does not undertake to recommend or to pass judgment upon applicants. It aims merely to serve as a clearing-house for such information as above stated and to bring into touch with one another candidates for positions and employers.

Individuals, whether members of the Federation or not, universities, other institutions and organizations desiring to avail themselves of the Service may receive such information as is available. By action of the Executive Committee in 1947, a registration fee of one dollar is required of each applicant for a position.

All communications should be addressed to: Federation Placement Service, 2101 Constitution Ave., Washington 25, D. C.

THE AMERICAN PHYSIOLOGICAL SOCIETY, INC.

Founded December 30, 1887; Incorporated June 2, 1923

OFFICERS, 1950–1951

President—H. C. BAZETT* (April to July, 1950). D. B. DILL, Medical Division, Army Chemical Center, Md.

President-Elect—D. B. DILL (April to July, 1950). Office vacant since July 1950.

Past-President—CARL J. WIGGERS, Western Reserve University, Cleveland, Ohio.

Council—H. C. BAZETT* (April to July, 1950), D. B. DILL, C. J. WIGGERS, R. W. GERARD (1953), *Secretary-Treasurer*, E. M. LANDIS (1951), F. A. HITCHCOCK (1952), E. F. ADOLPH (1953).

Executive Secretary—M. O. LEE, 2101 Constitution Ave., Washington, D. C.

Members of Joint Finance Committee (with Federation)—W. O. FENN, D. B. DILL.

Board of Publication Trustees—W. O. FENN, *Chairman* (1952); FRANK C. MANN (1951), R. F. PITTS (1953).

Representative on the Division of Biology and Agriculture, National Research Council—MAURICE B. VISSCHER (1952).

Representative on the Division of Medical Sciences, National Research Council—HALLOWELL DAVIS (1953).

Representatives on the Council of the American Association for the Advancement of Science—J. H. BODINE, (1952), LEIGH CHADWICK (1952).

Historian—WALTER J. MEEK.

Contributing Editor to Scientific Monthly—JOHN FIELD II.

PAST OFFICERS

Organization Meeting, December 30, 1887

S. WEIR MITCHELL, *President*
H. N. MARTIN, *Secretary*

1888 H. P. BOWDITCH, President; H. N. MARTIN, Secretary-Treasurer; J. G. CURTIS, H. C. WOOD, H. SEWALL, Councilors. **1889** S. WEIR MITCHELL, President; H. N. MARTIN, Secretary-Treasurer; H. P. BOWDITCH, J. G. CURTIS, H. C. WOODS, Councilors. **1890** S. WEIR MITCHELL, President; H. N. MARTIN, Secretary-Treasurer; H. P. BOWDITCH, J. G. CURTIS, H. H. DONALDSON, Councilors. **1891** H. P. BOWDITCH, President; H. N. MARTIN, Secretary-Treasurer; R. H. CHITTENDEN, J. G. CURTIS, H. N. DONALDSON, Councilors. **1892** H. P. BOWDITCH, President; H. N. MARTIN, Secretary-Treasurer; R. H. CHITTENDEN, J. G. CURTIS, W. H. HOWELL, Councilors. **1893** H. P. BOWDITCH, President; W. P. LOMBARD, Secretary-Treasurer; R. H. CHITTENDEN, J. G. CURTIS, W. H. HOWELL, Councilors. **1894** H. P. BOWDITCH, President; W. P. LOMBARD, Secretary-Treasurer. R. H. CHITTENDEN, W. H. HOWELL, J. W. WARREN, Councilors. **1895** H. P. BOWDITCH, President; F. S. LEE, Secretary-Treasurer; R. H. CHITTENDEN, W. H. HOWELL, W. P. LOMBARD, Councilors. **1896** R. H. CHITTENDEN, President; F. S. LEE, Secretary-Treasurer; H. P. BOWDITCH, W. H. HOWELL, J. W. WARREN, Councilors. **1897** R. H. CHITTENDEN, President; F. S. LEE, Secretary-Treasurer; H. P. BOWDITCH, W. H. HOWELL, W. P. LOMBARD, Councilors. **1898** R. H. CHITTENDEN, President; F. S. LEE, Secretary-Treasurer; H. P. BOWDITCH, W. H. HOWELL, W. P. LOMBARD, Councilors. **1899** R. H. CHITTENDEN, President; F. S. LEE, Secretary-Treasurer; W. H. HOWELL, W. P. LOMBARD, W. T. PORTER, Councilors. **1900** R. H. CHITTENDEN, President; F. S. LEE, Secretary-Treasurer; W. H. HOWELL, W. P. LOMBARD, W. T. PORTER, Councilors. **1901** R. H. CHITTENDEN, President; F. S. LEE, Secretary-Treasurer; W. H. HOWELL, W. P. LOMBARD, W. T. PORTER, Councilors. **1902** R. H. CHITTENDEN, President; F. S. LEE, Secretary-Treasurer; W. H. HOWELL, W. P. LOMBARD, W. T. PORTER, Councilors. **1903** R. H. CHITTENDEN, President; F. S. LEE, Secretary-Treasurer; W. H. HOWELL, W. P. LOMBARD, W. T. PORTER, Councilors. **1904** R. H. CHITTENDEN, President; W. T. PORTER, Secretary-Treasurer; F. S. LEE, W. P. LOMBARD, W. H. HOWELL, Councilors. **1905** W. H. HOWELL, President; L. B. MENDEL, Secretary; W. B. CANNON, Treasurer; R. H. CHITTENDEN, S. J. MELTZER, Councilors. **1906** W. H. HOWELL, President; L. B. MENDEL, Secretary; W. B. CANNON, Treasurer; A. B. MACALLUM, S. J. MELTZER, Councilors. **1907** W. H. HOWELL, President; L. B. MENDEL, Secretary; W. B. CANNON, Treasurer; J. J. ABEL, G. LUSK, Councilors. **1908** W. H. HOWELL, President; R. HUNT, Secretary; W. B. CANNON, Treasurer; J. J. ABEL, G. LUSK, Councilors. **1909** W. H. HOWELL, President; R. HUNT, Secretary; W. B. CANNON, Treasurer; A. J. CARLSON, W. P. LOMBARD, Councilors. **1910** W. H. HOWELL, President; A. J. CARLSON, Secretary; W. B. CANNON, Treasurer; J. ERLANGER, F. S. LEE, Councilors. **1911** S. J. MELTZER, President; A. J. CARLSON, Secretary; W. B. CANNON, Treasurer; J. ERLANGER, F. S. LEE, Councilors. **1912** S. J. MELTZER, President; A. J. CARLSON, Secretary; W. B. CANNON, Treasurer; J. ERLANGER, F. S. LEE, Councilors. **1913** S. J. MELTZER, President; A. J. CARLSON, Secretary; J. ERLANGER, Treasurer; W. B. CANNON,

* Deceased.

F. S. Lee, Councilors. **1914** W. B. Cannon, President; A. J. Carlson, Secretary; J. Erlanger, Treasurer; F. S. Lee, S. J. Meltzer, Councilors. **1915** W. B. Cannon, President; C. W. Greene, Secretary; J. Erlanger, Treasurer; W. E. Garrey, W. H. Howell, J. J. R. Macleod, W. J. Meek, Councilors. **1916** W. B. Cannon, President; C. W. Greene, Secretary; J. Erlanger, Treasurer; W. E. Garrey, W. H. Howell, J. J. R. Macleod, W. J. Meek, Councilors. **1917** F. S. Lee, President; C. W. Greene, Secretary; J. Erlanger, Treasurer; W. B. Cannon, W. H. Howell, J. J. R. Macleod, W. J. Meek, Councilors. **1918** F. S. Lee, President; C. W. Greene, Secretary; J. Erlanger, Treasurer; W. B. Cannon, W. H. Howell, J. J. R. Macleod, W. J. Meek, Councilors. **1919** W. P. Lombard, President; C. W. Greene, Secretary; J. Erlanger, Treasurer; W. B. Cannon, Y. Henderson, J. J. R. Macleod, W. J. Meek, Councilors. **1920** W. P. Lombard, President; C. W. Greene, Secretary; J. Erlanger, Treasurer; W. B. Cannon, J. J. R. Macleod, Y. Henderson, C. J. Wiggers, Councilors. **1921** J. J. R. Macleod, President; C. W. Greene, Secretary; J. Erlanger, Treasurer; J. A. E. Eyster, Y. Henderson, C. J. Wiggers, A. J. Carlson, Councilors. **1922** J. J. R. Macleod, President; C. W. Greene, Secretary; J. Erlanger, Treasurer; Y. Henderson, C. J. Wiggers, A. J. Carlson, J. A. E. Eyster, Councilors. **1923** A. J. Carlson, President; C. W. Greene, Secretary; J. Erlanger, Treasurer; C. J. Wiggers, A. B. Luckhardt, J. A. E. Eyster, J. R. Murlin, Councilors. **1924** A. J. Carlson, President; W. J. Meek, Secretary; C. K. Drinker, Treasurer; A. B. Luckhardt, J. A. E. Eyster, J. R. Murlin, W. E. Garrey, Councilors. **1925** A. J. Carlson, President; W. J. Meek, Secretary; C. K. Drinker, Treasurer; J. A. E. Eyster, J. R. Murlin, W. E. Garrey, Joseph Erlanger, Councilors. **1926** J. Erlanger, President; W. J. Meek Secretary; A. Forbes, Treasurer; J. R. Murlin, W. E. Garrey, A. B. Luckhardt, C. J. Wiggers, Councilors. **1927** J. Erlanger, President; W. J. Meek, Secretary; A. Forbes, Treasurer; W. E. Garrey, A. B. Luckhardt, C. J. Wiggers, R. Gesell, Councilors. **1928** J. Erlanger, President; W. J. Meek, Secretary; A. Forbes, Treasurer; A. B. Luckhardt, C. J. Wiggers, R. Gesell, A. J. Carlson, Councilors. **1929** W. J. Meek, President; Alfred C. Redfield, Secretary; A. Forbes, Treasurer; C. J. Wiggers, R. Gesell, A. J. Carlson, J. R. Murlin, Councilors. **1930** W. J. Meek, President; Arno B. Luckhardt, Secretary; A. Forbes, Treasurer; R. Gesell, A. J. Carlson, J. R. Murlin, E. G. Martin, Councilors. **1931** W. J. Meek, President; Arno B. Luckhardt, Secretary; Alexander Forbes, Treasurer; A. J. Carlson, J. R. Murlin, E. G. Martin, John Tait, Councilors. **1932** Arno B. Luckhardt, President; Frank C. Mann, Secretary; Alexander Forbes, Treasurer; E. G. Martin, W. J. Meek, J. R. Murlin, John Tait, Councilors. **1933** Arno B. Luckhardt, President; Frank C. Mann, Secretary; Alexander Forbes, Treasurer; Herbert S. Gasser, Ernest G. Martin, W. J. Meek, John Tait, Councilors. **1934** Charles W. Greene, President; Frank C. Mann, Secretary; Alexander Forbes, Treasurer; Herbert S. Gasser, Arno B. Luckhardt, W. J. Meek, John Tait, Councilors. **1935** Frank C. Mann, President; Andrew C. Ivy, Secretary; Alexander Forbes, Treasurer; Charles H. Best, Herbert S. Gasser, Arno B. Luckhardt, W. J. Meek, Councilors. **1936** Frank C. Mann, President; Andrew C. Ivy, Secretary; Wallace O. Fenn, Treasurer; Charles H. Best, Philip Bard, Herbert S. Gasser, Arno B. Luckhardt, Councilors. **1937** Walter E. Garrey, President; Andrew C. Ivy, Secretary; Wallace O. Fenn, Treasurer; Charles H. Best, Philip Bard, Herbert S. Gasser, Arno B. Luckhardt, Councilors. **1938** William T. Porter, Honorary President; Walter E. Garrey, President; Andrew C. Ivy, Secretary; Wallace O. Fenn, Treasurer; Arno B. Luckhardt, Charles H. Best, Philip Bard, Herbert S. Gasser, Councilors. **1939** Andrew C. Ivy, President; Philip Bard, Secretary; Wallace O. Fenn, Treasurer; Charles H. Best, Herbert S. Gasser, Arno B. Luckhardt, Maurice B. Visscher, Councilors. **1940** Andrew C. Ivy, President; Philip Bard, Secretary; Carl J. Wiggers, Treasurer; Charles H. Best, Herbert S. Gasser, Arno B. Luckhardt, Maurice B. Visscher, Councilors. **1941** Philip Bard, President; Carl J. Wiggers, Secretary; Hallowell Davis, Treasurer; Charles H. Best, Arno B. Luckhardt, Maurice B. Visscher, Hiram E. Essex, Councilors. **1942, 1943, 1944, 1945** Philip Bard, President; Wallace O. Fenn, Secretary; Hallowell Davis, Treasurer; Charles H. Best, Maurice B. Visscher, Hiram E. Essex, W. F. Hamilton, Councilors. **1946** Wallace O. Fenn, President; Maurice B. Visscher, Secretary; D. B. Dill, Treasurer; Charles H. Best, Hiram E. Essex, W. F. Hamilton, H. C. Bazett, Councilors. **1947** Wallace O. Fenn, President; Maurice B. Visscher, Secretary; D. B. Dill, Treasurer; Eugene M. Landis, Hiram E. Essex, W. F. Hamilton, H. C. Bazett, Councilors. **1948** Maurice B. Visscher, President; Carl J. Wiggers, President-Elect; Wallace O. Fenn, Past-President; W. F. Hamilton, H. C. Bazett, Eugene M. Landis, D. B. Dill, Councilors. **1949** Carl J. Wiggers, President; H. C. Bazett, President-Elect; Maurice B. Visscher, Past-President; Edward F. Adolph, Eugene M. Landis, D. B. Dill, R. W. Gerard, Councilors.

CONSTITUTION

I

1. This Society shall be named "THE AMERICAN PHYSIOLOGICAL SOCIETY, INCORPORATED."

2. The Society is instituted to promote the advance of Physiology and to facilitate personal intercourse between American Physiologists.

II

1. The Society shall consist of members and honorary members.

2. Any person who has conducted and published meritorious original researches in Physiology and who is a resident of North America shall be eligible for membership in the Society.

3. Members who have been relieved by the Council of the payment of the annual assessment shall retain all the rights of members.

4. Distinguished men of science who have contributed to the advance of Physiology shall be eligible for election as honorary members of the Society. Honorary members shall pay no membership fee. They shall have the right of attending the meetings of the Society, and of taking part in its scientific discussions, but they shall have no vote.

III

1. The management of the Society shall be vested in a Council consisting of a President-Elect, President, Past-President for the previous year, and four other members. The President-Elect and one member of the Council shall be chosen by ballot at the Spring meeting. The President-Elect shall automatically assume the duties of President at the adjournment of the annual meeting following his or her election. The four additional members shall be elected for terms of four years and shall not be eligible to succeed themselves except those who have served for two years or less in filling interim vacancies. A person who has once been President shall not be eligible for re-election as President-Elect. The Council shall select from among its own members a Secretary-Treasurer of the Society and Council. It shall also have the power to appoint and to compensate an Executive Secretary of the Society, who shall not be a voting member of the Council but shall assist it in carrying on the functions of the Society, including the receipt and disbursement of funds under the direction of the Council. If the annual meeting is not held all the members of the Council shall continue in office until their successors are chosen in the prescribed manner in succession.

2. The Council shall define the respective duties of the President, Secretary-Treasurer and Executive Secretary.

3. If a member of the Council be elected President-Elect, the vacancy on the Council shall be filled by election of the same meeting, the electee to serve the unexpired term. The Council shall have the power to fill all interim vacancies that may occur in its membership or in any Committee or board of the Society except those for which other provisions have been made.

IV

1. At least a fortnight before a meeting of the Society the Executive Secretary shall send to each member a notice of the place and time of each meeting, and shall make such other announcements as the Council shall direct.

2. The member assessment shall be determined by the Council and shall be due in advance at the time of the annual meeting. No allocation or disbursement of funds of the Society shall be made except upon prior approval of the Council. Appropriations shall be made by the Council for the conduct of the necessary and appropriate business of the Society.

3. Any member whose assessment is two years in arrears shall cease to be a member of the Society, unless at the next Spring meeting he shall be reinstated by special vote of the Society; and it shall be the duty of the Secretary-Treasurer to notify the said delinquent of his right to appeal at the said meeting.

4. Any member who has retired because of illness or age may, upon application to the Council, be relieved from payment of the annual assessment.

V

1. A meeting of the Society for transacting business, the election of officers and members, and presenting communications shall be held in the Spring, except in the case of national emergencies or other exceptional circumstances, when the Council may decide on postponement. The time and place of such meetings shall be determined by the Council in consultation with the Executive Committee of the Federation of American Societies for Experimental Biology.

2. A Fall meeting of the Society may be held at a time and place determined by the Council for presenting communications and transacting any business except the election of officers and members. Special meetings may be held at such times and places as the Council may determine.

VI

1. Proposed amendments to the Constitution must be brought up at one meeting for preliminary discussion and approval by a majority vote and cannot be adopted except by a two-thirds vote at a business session at the next Spring meeting.

Notice of such changes shall be sent to all members at least two weeks prior to the meeting at which they are scheduled for adoption.

2. At all business meetings of the Society twenty-five members shall form a quorum.

3. By-laws for the conduct of the Society may be adopted, altered, or repealed at any business meeting by two-thirds vote of the ballots cast.

VII

1. The Council may, from the names of the candidates proposed in writing by at least two members of the Society, nominate candidates for election to membership. The names of the candidates so nominated and a statement of their qualifications for membership signed by their proposers shall be available for inspection during the business sessions of the Society at which their election is considered. The candidates may be balloted for at any session of the same meeting and a majority vote shall elect. If a Spring meeting is not held, the Society shall elect candidates to membership at the next Spring meeting.

2. Honorary members shall be proposed by the Council, and shall be elected by a majority ballot of the members present at the Spring meeting of the Society.

VIII

1. If a majority of the Council shall decide that the interests of the Society require the expulsion of a member, the Secretary-Treasurer shall send a notice of this decision to each member at least two weeks before the next annual meeting. At this meeting the Secretary-Treasurer shall on behalf of the Council, propose the expulsion; and if two-thirds of the members present vote for it, the member shall be expelled, and his assessment for the current year shall be returned to him, and he shall cease to be a member of the Society.

IX

1. The official organs of the Society shall be the *American Journal of Physiology*, the *Journal of Applied Physiology*, *Physiological Reviews* and such other publications as the Society shall establish. These the Society shall own and they shall be managed according to the provisions of Article X.

X

1. The President of the Society shall appoint, in consultation with the Council and subject to the approval of the Society, three members of the Society to serve as members of a Board of Publication Trustees.

2. The initial appointments shall be for one, two and three years. Thereafter, each member shall be appointed for three years, and shall be eligible for one immediate reappointment. He may be subsequently reappointed, but only after the lapse of at least one year between reappointments.

3. The Board of Publication Trustees shall be vested with full power of the Society to control and manage, both editorially and financially, all of the publications owned in whole or in part by the Society; to appoint editorial boards; to appoint and compensate a Managing Editor; and to control all publication funds, none of which, however, may be diverted from support of publications of the Society except by consent of the Council.

4. The Board of Publication Trustees shall make a full report to the Council at each annual meeting of the financial condition and publication policy of the Journals or other publications.

BY-LAWS

1. All papers read before the Society shall be limited to a length of ten minutes. No person may orally present more than one paper. In case of joint authorship the name of the individual who will orally present the paper shall stand first.

2. Abstracts in duplicate, not to exceed two hundred and fifty words in length, of all papers to be presented at the annual meeting of the Society shall be required by the Secretary for publication in the *Federation Proceedings*, in accordance with rules approved by the Council.

3. The Council shall upon the request of twenty-five members call a regional meeting of the Society at any time and place, for the reading of papers and the promotion of personal intercourse. Such a request shall be made in writing at least six weeks before the proposed date of meeting. Such meeting shall be held in accordance with the Constitution and By-laws of the Society, and if the regular officers of the Society cannot be present the President shall appoint a committee from among the petitioners to conduct the meeting. The Committee through a Secretary chosen by them shall forward an account of the scientific proceedings of the meeting to the official Secretary of the Society for insertion in the minutes.

4. No general business of the Society shall be transacted at such regional meetings.

AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, INC.

Founded December 6, 1906; Incorporated September 12, 1919

OFFICERS, COMMITTEES AND REPRESENTATIVES FOR 1950–1951

President—H. B. VICKERY, Connecticut Agricultural Experiment Station, New Haven (1950–51).

Vice President—V. DU VIGNEAUD, Cornell University Medical College, New York City (1950–51).

Secretary—E. H. STOTZ, University of Rochester School of Medicine and Dentistry, Rochester N. Y. (1950–51).

Treasurer—E. A. EVANS, University of Chicago, Chicago, Ill. (1946–51).

Council—H. B. VICKERY, V. DU VIGNEAUD, E. H. STOTZ, E. A. EVANS, JR.; H. T. CLARKE (1949–52), C. F. CORI (1950–53), J. M. LUCK (1947–48; 1948–51), Councilors.

STANDING COMMITTEES

Editorial Board—R. J. ANDERSON (1931; *Managing Editor*, 1935–42; 1942—); R. M. ARCHIBALD (1948–53), E. G. BALL (1950–55), H. E. CARTER (1950–55), W. M. CLARK (1938), H. T. CLARKE (1937), C. F. CORI (1941), E. A. DOISY (1938), V. DU VIGNEAUD (1948–53), J. S. FRUTON (1948–53), W. H. GRIFFITH (1949–54), A. B. HASTINGS (1941), H. B. LEWIS (1938), H. S. LORING (1950–55), E. V. MCCOLLUM (1933), S. MOORE (1950–55), S. OCHOA (1950–55), E. E. SNELL (1949–54), W. M. SPERRY (1949–54), E. L. TATUM (1948–53), H. B. VICKERY (1941), H. G. WOOD (1949–54).

Editorial Committee—H. A. MATTILL (1947–53; *Chairman*, March 3, 1948); W. R. BLOOR (1947–53), R. K. CANNAN (1949–55), J. T. EDSALL* (1948–51), C. G. KING (1947–53), J. M. LUCK (1949–55), A. N. RICHARDS (1945–51), P. A. SHAFFER (1945–51), D. W. WILSON (1949–55).

Nominating Committee—H. E. CARTER (1949–50; 1950–51, *Chairman* and *Secretary*); K. BLOCH (1950–51), H. BORSOOK (1950–51), H. J. DEUEL (1950–51), J. T. EDSALL (1950–51), D. M. GREENBERG (1949–50; 1950–51), H. B. LEWIS (1949–50; 1950–51), J. B. SUMNER (1950–51), H. G. WOOD (1949–50; 1950–51).

SPECIAL COMMITTEES

Armed Forces Committee, 1950–51 (March 14, 1946)—W. H. GRIFFITH, *Chairman;* O. A. BESSEY, C. G. KING.

Biochemical Nomenclature, 1950–51 (April 15, 1941)—H. B. VICKERY, *Chairman;* E. M. NELSON, H. J. ALMQUIST (American Institute of Nutrition), C. A. ELVEHJEM (American Institute of Nutrition).

Clinical Chemistry, 1950–51 (March 11, 1946)—W. M. SPERRY, *Chairman;* H. T. CLARKE, R. N. HARGER, R. M. HILL, J. REINHOLD, H. SOBOTKA, W. A. WOLFF.

Codify Administrative and Business Organization of the Society, 1950–51 (March 14, 1948)—E. A. EVANS, JR. (ex officio Treasurer), *Chairman;* O. A. BESSEY, R. W. JACKSON.

Finance Committee, 1950–51 (reappointed March 13, 1942)—E. A. EVANS JR. (ex officio Treasurer), *Chairman;* H. B. VICKERY (ex officio President), E. H. STOTZ (ex officio Secretary).

Professional Training of Biochemists, 1950–51 (November 29, 1945)—C. A. ELVEHJEM, *Chairman;* W. M. CLARK, E. A. DOISY, V. DU VIGNEAUD, H. B. LEWIS.

Historian—P. A. SHAFFER (1946—).

Legal Counselor—LLOYD N. SCOTT (1950–51).

REPRESENTATIVES TO OTHER ORGANIZATIONS

American Association for the Advancement of Science (April 18, 1941)—W. D. ARMSTRONG (1949–51), D. BURK (1949–51).

American Documentation Institute (1937)—A. SEIDELL (January 1, 1950–53).

International Committee for Biochemistry (1949)—A. B. HASTINGS (1950–51).

National Research Council—W. M. CLARK, Division of Biology and Agriculture (1948–51), W. C. STADIE, Division of Medical Sciences (1948–51).

PAST OFFICERS

1907 RUSSELL H. CHITTENDEN, President; J. J. ABEL, Vice-President; W. J. GIES, Secretary; L. B. MENDEL, Treasurer; W. JONES, W. KOCH, J. MARSHALL, T. B. OSBORNE, Councilors. **1908** JOHN J. ABEL, President; OTTO FOLIN, Vice-President; WM. J. GIES, Secretary; L. B. MENDEL, Treasurer; A. B. MACALLUM, A. P. MATHEWS, F. G. NOVY, Councilors. **1909** OTTO FOLIN, President; T. B. OSBORNE, Vice-President; WM. J. GIES, Secretary; L. B. MENDEL, Treasurer; J. J. ABEL, P. A. LEVENE, G. LUSK, Councilors. **1910** THOMAS B. OSBORNE, President; L. B. MENDEL, Vice-President; A. N. RICHARDS, Secretary; WALTER JONES, Treasurer; A. B. MACALLUM, A. P. MATHEWS, V. C. VAUGHAN, Councilors. **1911** LAFAYETTE B. MENDEL, President; A. B. MACALLUM, Vice-President; A. N. RICHARDS, Secretary; WALTER JONES, Treasurer; WM. J. GIES, A. S. LOEVENHART, P. A. SHAFFER, Councilors. **1912** ARCHIBALD B. MACALLUM, President; G. LUSK, Vice-President; A. N. RICHARDS, Secretary; WALTER JONES, Treasurer; H. P. ARMSBY, L. B.

* Elected to fill unexpired term 1945–1951 of V. du Vigneaud, resigned January, 1948.

MENDEL, H. G. WELLS, Councilors. **1913** ARCHIBALD B. MACALLUM, President; G. LUSK, Vice-President; P. A. SHAFFER, Secretary; D. D. VAN SLYKE, Treasurer; H. P. ARMSBY, L. B. MENDEL, H. G. WELLS, Councilors. **1914** GRAHAM LUSK, President; C. L. ALSBERG, Vice-President; P. A. SHAFFER, Secretary; D. D. VAN SLYKE, Treasurer; J. J. ABEL, A. B. MACALLUM, T. B. OSBORNE, Councilors. **1915** WALTER JONES, President; C. L. ALSBERG, Vice-President; P. A. SHAFFER, Secretary; D. D. VAN SLYKE, Treasurer; OTTO FOLIN, G. LUSK, L. B. MENDELL, Councilors. **1916** WALTER JONES, President; F. P. UNDERHILL, Vice-President; S. R. BENEDICT, Secretary; D. D. VAN SLYKE, Treasurer; OTTO FOLIN, A. B. MACALLUM, P. A. SHAFFER, Councilors. **1917** CARL L. ALSBERG, President; A. P. MATHEWS, Vice-President; S. R. BENEDICT, Secretary; H. C. BRADLEY, Treasurer; L. J. HENDERSON, P. A. SHAFFER, F. P. UNDERHILL, Councilors. **1918** CARL L. ALSBERG, President; A. P. MATHEW, Vice-President; S. R. BENEDICT, Secretary; H. C. BRADLEY, Treasurer; W. J. GIES, ANDREW HUNTER, E. V. MCCOLLUM, Councilors. **1919** STANLEY R. BENEDICT, President; D. D. Van SLYKE, Vice-President; V. C. MYERS, Secretary; H. C. BRADLEY, Treasurer; ANDREW HUNTER, E. V. MCCOLLUM, L. B. MENDELL, Councilors. **1920** STANLEY R. BENEDICT, President; D. D. VAN SLYKE, Vice-President; V. C. MYERS, Secretary; H. C. BRADLEY, Treasurer; OTTO FOLIN, WALTER JONES, L. B. MENDEL, Councilors. **1921** DONALD D. VAN SLYKE, President; P. A. SHAFFER, Vice-President; V. C. MYERS, Secretary; H. C. BRADLEY, Treasurer; S. R. BENEDICT, OTTO FOLIN, WALTER JONES, Councilors. **1922** DONALD D. VAN SLYKE, President; P. A. SHAFFER, Vice-President; V. C. MYERS, Secretary; W. R. BLOOR, Treasurer; S. R. BENEDICT, H. C. BRADLEY, A. P. MATHEWS, Councilors. **1923** PHILIP A. SHAFFER, President; H. C. SHERMAN, Vice-President; V. C. MYERS, Secretary; W. R. BLOOR, Treasurer; H. C. BRADLEY, ANDREW HUNTER, A. P. MATHEWS, Councilors. **1924** PHILIP A. SHAFFER, President; HENRY C. SHERMAN, Vice-President; D. WRIGHT WILSON, Secretary; WALTER R. BLOOR, Treasurer; OTTO FOLIN, ANDREW HUNTER, VICTOR C. MYERS, Councilors. **1925** HENRY C. SHERMAN, President; EDWARD C. KENDALL, Vice-President; D. WRIGHT WILSON, Secretary; WALTER R. BLOOR, Treasurer; OTTO FOLIN, LAFAYETTE B. MENDEL, PHILIP A. SHAFFER, Councilors. **1926** EDWARD C. KENDALL, President; ELMER V. MCCOLLUM, Vice-President; FRED C. KOCH, Secretary; GLENN E. CULLEN, Treasurer; J. B. COLLIP, EDWARD A. DOISY, ALBERT P. MATHEWS, Councilors. **1927** E. V. MCCOLLUM, President; W. R. BLOOR, Vice-President; D. WRIGHT WILSON, Secretary; G. E. CULLEN, Treasurer; E. A. DOISY, F. C. KOCH, D. D. VAN SLYKE, Councilors. **1928** E. V. MCCOLLUM President; W. R. BLOOR, Vice-President; D. WRIGHT WILSON, Secretary; G. E. CULLEN, Treasurer; WM. M. CLARK, F. C. KOCH, D. D. VAN SLYKE, Councilors. **1929** W. R. BLOOR, President; H. C. BRADLEY, Vice-President; H. B. LEWIS, Secretary; G. E. CULLEN, Treasurer; W. M. CLARK, C. L. A. SCHMIDT, P. A. SHAFFER, Councilors. **1930** W. R. BLOOR, President; H. C. BRADLEY, Vice-President; H. B. LEWIS, Secretary; G. E. CULLEN, Treasurer; W. M. CLARK, P. A. SHAFFER, D. W. WILSON, Councilors. **1931** H. C. BRADLEY, President; W. M. CLARK, Vice-President; H. B. LEWIS, Secretary; C. H. FISKE, Treasurer; W. C. ROSE, P. A. SHAFFER, D. W. WILSON, Councilors. **1932** H. C. BRADLEY, President; W. M. CLARK, Vice-President; H. B. LEWIS, Secretary; C. H. FISKE, Treasurer; P. E. HOWE, W. C. ROSE, D. W. WILSON, Councilors. **1933** W. M. CLARK, President; H. B. LEWIS, Vice-President; H. A. MATTILL, Secretary; C. H. FISKE, Treasurer; H. C. BRADLEY, P. E. HOWE, W. C. ROSE, Councilors. **1934** W. M. CLARK, President; H. B. LEWIS, Vice-President; H. A. MATTILL, Secretary; C. H. FISKE, Treasurer; H. C. BRADLEY, E. A. DOISY, P. E. HOWE, Councilors. **1935** H. B. LEWIS, President; G. E. CULLEN, Vice-President; H. A. MATTILL, Secretary; C. H. FISKE, Treasurer; H. C. BRADLEY, J. B. COLLIP, E. A. DOISY, Councilors. **1936** H. B. LEWIS, President; G. E. CULLEN, Vice-President; H. A. MATTILL, Secretary; A. B. HASTINGS, Treasurer; J. B. COLLIP, E. A. DOISY, W. C. ROSE, Councilors. **1937** G. E. CULLEN, President; W. C. ROSE, Vice-President; H. A. MATTILL, Secretary; A. B. HASTINGS, Treasurer; E. A. DOISY, H. B. LEWIS, H. B. VICKERY, Councilors. **1938** G. E. CULLEN, President; W. C. ROSE, Vice-President; CHARLES G. KING, Secretary; A. B. HASTINGS, Treasurer; H. B. LEWIS, H. A. MATTILL, H. B. VICKERY, Councilors. **1939** W. C. ROSE, President; R. J. ANDERSON, Vice-President; CHARLES G. KING, Secretary; A. B. HASTINGS, Treasurer; H. B. LEWIS, H. A. MATTILL, G. E. CULLEN, Councilors. **1940** WILLIAM C. ROSE, President; RUDOLPH J. ANDERSON, Vice-President; CHARLES G. KING, Secretary; A. B. HASTINGS, Treasurer; H. A. MATTILL, GLENN E. CULLEN, E. A. DOISY, Councilors. **1941** R. J. ANDERSON, President; E. A. DOISY, Vice-President; A. K. BALLS, Secretary; W. C. STADIE, Treasurer; H. B. LEWIS, W. C. ROSE, Councilors. **1942** R. J. ANDERSON, President; E. A. DOISY, Vice-President; A. K. BALLS, Secretary; W. C. STADIE, Treasurer; W. C. ROSE, C. A. KING, H. T. CLARKE, Councilors. **1943** E. A. DOISY, President; A. B. HASTINGS, Vice-President; A. K. BALLS, Secretary; W. C. STADIE, Treasurer; W. C. ROSE, H. T. CLARKE, R. J. ANDERSON, Councilors. **1944** E. A. DOISY,

President; A. B. Hastings, Vice-President; A. K. Balls, Secretary; W. C. Stadie, Treasurer; R. J. Anderson, H. T. Clarke, V. du Vigneaud, Councilors. **1945** A. B. Hastings, President; H. T. Clarke, Vice-President; A. K. Balls, Secretary; W. C. Stadie, Treasurer; R. J. Anderson, C. F. Cori, V. du Vigneaud, Councilors. **1946** A. B. Hastings, President; H. T. Clarke Vice-President; Otto A. Bessey, Secretary; E. A. Evans, Jr., Treasurer; V. du Vigneaud, C. F. Cori, A. K. Balls, Councilors. **1947** Hans T. Clarke, President; Carl F. Cori, Vice-President; Otto A. Bessey, Secretary; E. A. Evans, Jr. Treasurer; A. K. Balls, A. Baird Hastings, J. Murray Luck, Councilors. **1948** Hans T. Clarke, President; Carl F. Cori, Vice-President; Otto A. Bessey, Secretary; E. A. Evans, Jr., Treasurer; A. K. Balls, A. Baird Hastings, J. Murray Luck, Councilors. **1949** Carl F. Cori, President; H. B. Vickery, Vice-President; R. W. Jackson, Secretary; E. A. Evans, Jr., Treasurer; R. W. Jackson, J. M. Luck, H. B. Vickery, Councilors.

CONSTITUTION

From the Articles of Incorporation

1. The name of the proposed corporation is "American Society of Biological Chemists, Incorporated."

2. The purposes for which this corporation is formed are to further the extension of biochemical knowledge and to facilitate personal intercourse between American investigators in biological chemistry.

BY-LAWS

Article I. *Membership*

Section 1. *Eligibility for Membership.* Qualified investigators who have conducted and published meritorious original investigations in biological chemistry shall be eligible for membership in the Society.

Section 2. *Nomination.* Nominations for membership shall be made and seconded by members of the Society on blanks furnished by the Secretary. Nominations shall be submitted to the Council who shall determine eligibility and make recommendation to the Society at a regular meeting.

Section 3. *Election to Membership.* A. A nominee for membership may be voted for by ballot at any meeting of the Society after the Council has reported its findings on his eligibility. The eligible candidate shall be reported by the Council as "eligible" or as "eligible and indorsed." B. A majority of the ballots cast shall elect.

Section 4. *Forfeiture.* A. Any member who may grant the use of his name for (a) the advertisement of a patent medicine, a proprietary food preparation, or any other commercial article of doubtful value to the public or possibly harmful to the public health, or (b) who may concede its use for the purpose of encouraging the sale of individual samples (of any such product) that he has not examined, shall forfeit his membership.

B. The Council shall have authority to announce forfeiture of membership, provided that the copy of the charges, together with a written notice of a hearing thereon by the Council at a place and time specified in such notice, shall have been delivered to the member charged with violating the preceding section either personally or mailed to him at his last known address at least thirty days before the date of such hearing.

Section 5. *Expulsion.* Upon the recommendation of the Council any member may be expelled by a majority vote of the total membership at a meeting of the Society, provided that a copy of the charges against him, together with a written notice of a hearing thereon by the Council at a place and time specified in such notice shall have been delivered to him personally or mailed to him at his last known address at least thirty days before the date of such hearing.

Article II. *Meetings and Quorum*

Section 1. *Annual.* The annual meeting of the Society shall be held on the date fixed by the Certificate of Incorporation.

Section 2. *Special.* A special meeting may be called at any time by the President, or in case of his absence or disability, by the Vice-President, and must be called at the request of a majority of the Council or fifteen members of the Society. A notice specifying the purpose of such meeting shall be mailed to each member at least ten days previous thereto. The Council shall select the places at which meetings shall be held.

Section 3. *Quorum.* Fifteen members shall constitute a quorum at all meetings of the Society, but in absence of a quorum any number shall be sufficient to adjourn to a fixed date.

Article III. *Officials*

Section 1. *Officers.* The officers shall be a President, a Vice-President, a Secretary, and a Treasurer, who shall be elected annually by the members of the Society.

Section 2. *Council.* A. The Officers so elected and three additional members, one of whom shall be elected at each annual meeting of the Society to serve a three year term, shall constitute the Board of Directors of the corporation and shall be known as "The Council." (When this provision is first put into effect three members will need to be elected for a one, a two and a three year period.)

B. No two members of the Council may be from the same institution, and none of the officers so

elected shall be eligible for re-election for more than two years except the Secretary and Treasurer, who shall be eligible for re-election for five years. The three additional members of the Council shall be ineligible for re-election (until after the lapse of one year).

SECTION 3. *Duties of Officers.* The powers and duties of the officers elected by the Society shall be such as usually devolve upon their respective positions.

SECTION 4. *Assistant Treasurer.* A. The Council may from time to time appoint a trust company, or some member of the Society, to serve during the pleasure of the Council as Assistant Treasurer, and to act as depositary of the investments and income of the "Christian A. Herter Memorial Fund" and of such other funds as the Society may from time to time commit to its or his charge.

B. The Assistant Treasurer shall have and exercise the following powers and duties, viz., the custody and safe-keeping of securities and cash belonging to the "Christian A. Herter Fund" and the collection of income and other moneys due to the Fund, with power to receipt for the same and to endorse for deposit all checks payable to the Society or the Treasurer, or to the Journal of Biological Chemistry for income or other moneys due to the Fund, the investment or reinvestment of the capital of the Fund, subject to the approval of the Council; the disbursement of principal under the direction of the Council and the disbursement of income under the direction of the Editorial Board of the Journal of Biological Chemistry, such disbursement to be made under a resolution of the Council or Board, or with the approval of two members of either the Council or Board, as the case may be. The Assistant Treasurer shall keep books of account and render statements, annually or oftener upon the request of the Council or Board setting forth the condition of the Fund and the receipts and disbursements since the date of the preceding statement.

ARTICLE IV. *The Council*

SECTION 1. *Powers.* The general management of the Society during the intervals between meetings shall be vested in the Council, which shall regularly perform the ordinary duties of an executive committee and possess all the powers conferred upon the Board of Directors of a membership corporation by the Membership Corporation Law of the State of New York.

SECTION 2. *Reports.* The Council shall report to the Society as promptly as possible its findings on the eligibility of candidates for membership, and on all charges of a violation of these By-Laws.

SECTION 3. *Journal of Biological Chemistry.* The Council shall have power to appoint the persons to act as proxies for the Society at all meetings of the stockholders of the "Journal of Biological Chemistry" (a corporation) of which all the stock is owned by the Society, and also to designate the persons to be elected as Directors of such corporation.

SECTION 4. *Herter Fund.* It shall be the duty of the Council to see that the "Christian A. Herter Memorial Fund" is administered in accordance with the terms of the Trust Agreement, Dated May 16, 1911, executed by the Journal of Biological Chemistry and the donors of said Fund.

ARTICLE V. *Nominating Committee*

SECTION 1. *Membership.* A. The Nominating Committee shall consist of nine members from nine different institutions elected at each annual meeting to serve for the ensuing year. Members who have served on the Nominating Committee for two consecutive years shall be ineligible for re-election until after the lapse of one year.

B. The member of the Nominating Committee who is elected to the Committee by the largest number of votes shall become Chairman and Secretary of the Committee.

SECTION 2. *Nomination of Officials.* A. The Nominating Committee shall make at least one nomination for each of the four offices and for each of the three additional positions in the Council to be filled by vote of the members.

B. The nominations by the Nominating Committee must be transmitted to the Secretary at least one month before the annual meeting at which they are to be considered.

C. The Secretary shall send to every member, at least two weeks before the annual meeting, two copies of the list of nominees presented to him by the Nominating Committee and at the same time shall notify all the members that they may vote by proxy.

D. At the opening of the first executive session of the ensuing annual meeting the Secretary shall formally present the regular nominations for the Nominating Committee.

E. Additional nominations for the offices and for membership in the Council may be made by any member at the opening of the first executive session of any annual meeting.

F. Nominations for membership on the Nominating Committee shall be made by or for individual members, either in person or by proxy, and not otherwise, at the opening of the first executive session of any annual meeting.

SECTION 3. *Election of Officials.* A. The Secretary shall receive and present to the tellers, appointed by the President to take charge of the election, all signed ballots forwarded by absent members. When such ballots are presented to the tellers the Secretary shall announce the names of the mem-

bers voting by proxy, and he shall record the same names in the minutes of the meeting.

B. All elective officials shall be selected by ballot at the close of the first executive session of each annual meeting.

C. A majority of the votes cast shall be necessary to elect an official.

D. Elective officials shall take office on July 1st following the annual meeting.

SECTION 4. *Filling of Vacancies.* A. The Nominating Committee shall fill all vacancies in elective positions except such as may occur at a meeting of the Society.

B. The President of the Society shall fill all vacancies in appointive positions.

ARTICLE VI. *Financial*

SECTION 1. *Dues.* Annual assessments shall be determined by majority vote at the annual meetings, upon the recommendation of the Council, and shall be due January 15th in each year. Members who have reached the age of 65 years, or who have become incapacitated, may, by vote of the Council, be exempted from the payment of dues.

SECTION 2. *Expenditures.* No expenditures from the general funds of the Society except those required in the performance of the ordinary official duties shall be made except by vote of the Society or the Council, but this section shall not apply to expenditures from the "Christian A. Herter Memorial Fund."

SECTION 3. *Privileges of Membership Begin with Payment of Dues.* Candidates for membership, if elected, shall not be entitled to any of the privileges of membership, before they pay the dues of the fiscal year succeeding their election.

SECTION 4. *Penalty for Non-Payment of Dues.* A. Members in arrears for dues for a period of three consecutive years shall thereupon forfeit their membership.

B. Delinquent members may be reinstated by the Council provided all indebtedness to the Society is liquidated.

SECTION 5. *Herter Fund.* The "Christian A. Herter Memorial Fund" shall be held and invested separately from the general funds of the Society and the income thereof shall be expended under the direction of the Editorial Board exclusively for the maintenance and support of the Journal of Biological Chemistry, subject to the supervision and control of the Editorial Committee in accordance with the terms of the Trust Agreement mentioned in ARTICLE IV, SECTION 4, and the provisions of ARTICLE VII of the By-Laws.

ARTICLE VII. *Journal of Biological Chemistry*

SECTION 1. *Editorial Committee.* There shall be an Editorial Committee consisting of nine members of the Society who shall be nominated by the Nominating Committee and elected by the Society in the same manner as officers. The nine members first elected shall divide themselves by lot into three classes of three in each class, to serve for two, four, and six years respectively, and thereafter three members shall be elected at each alternate annual meeting of the Society to succeed the members of the outgoing class and to serve for a term of six years. Members of the Committee shall be eligible to re-election.

SECTION 2. *Powers of Committee.* The Committee shall have power to elect an Editorial Board and shall have final authority in matters pertaining to the general policy of the Journal.

SECTION 3. *Editorial Board.* The members of the Board shall hold office until their successors are elected and shall appoint a Managing Editor from among their own number who shall have direct responsibility and authority for the active editorial conduct of the Journal, and who shall have discretionary power in arranging the details as to the conduct of the Journal. The expenditures of the income of the "Christian A. Herter Memorial Fund" shall be under the direction of the Board, and the approval of any two members of the Board shall be a sufficient warrant to authorize payments from such income.

ARTICLE VIII. *Papers on Scientific Subjects*

SECTION 1. *Presentation of Papers.* The Secretary shall request each member who signifies his intention of reading a paper at any session to specify the length of time which its presentation will require. The time thus specified shall be printed on the official program, and the presiding officer shall have no authority to extend it unless a majority of the members present signify their wish to the contrary. In the absence of any specification of time required not more than ten minutes shall be allotted for the reading of any one paper.

SECTION 2. *Number of Papers.* No member shall be permitted to present more than one paper, either alone or in collaboration, until every member shall have had the opportunity of presenting one paper.

ARTICLE IX. *Corporate Seal*

SECTION 1. The corporate seal of the corporation shall be a circle surrounded by the words, "AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS," and including the word, "INCORPORATED."

ARTICLE X. *Amendments*

SECTION 1. *Amendments.* These By-Laws, after having been approved by the Council, and adopted by the Society at its first annual meeting, shall not be amended except as hereinafter provided.

SECTION 2. *Manner of Presentation.* Proposed

amendments to the By-Laws must be sent to the Secretary at least one month before the date of the meeting at which they are to be considered and must be indorsed in writing by at least three members.

SECTION 3. *Notice of Intended Amendments.* Secretary shall give every member notice of proposed amendments at least two weeks before the meeting at which they are to be considered and shall notify all members that they may vote by proxy.

SECTION 4. *Adoption of Amendments.* A. The Secretary shall receive and present to the tellers appointed by the President all signed ballots forwarded by absent members. When such ballots are presented to the tellers, the Secretary shall announce the names of members voting by proxy, and he shall record the same names in the minutes of the meeting.

B. Votes upon amendments shall be cast at the opening of the second executive session of the meeting at which they are considered.

C. Affirmative votes from three-fifths of the members voting shall be required for the adoption of an amendment.

AMERICAN SOCIETY FOR PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, INC.

Founded December 28, 1908 Incorporated June 19, 1933

OFFICERS, 1950–1951

President—CARL F. SCHMIDT, University of Pennsylvania School of Medicine, Philadelphia.

Vice-President—MCKEEN CATTELL, Cornell University Medical College, New York City.

Secretary—HARVEY B. HAAG, Medical College of Virginia, Richmond.

Treasurer—K. K. CHEN, Lilly Research Laboratories, Indianapolis, Ind.

Council—CARL F. SCHMIDT, MCKEEN CATTELL, HARVEY B. HAAG, K. K. CHEN AND LOUIS S. GOODMAN, THOMAS C. BUTLER, ARTHUR C. DE GRAFF, Councilors.

Membership Committee—ROBERT P. WALTON (1950), JOHN C. KRANTZ, JR. (1951) J. H. COMROE, JR. (1952).

Nominating Committee—OTTO KRAYER, *Chairman;* W. T. SALTER, WALTON VAN WINKLE, JR., ALFRED GILMAN, M. H. SEEVERS.

Historian—WILLIAM DEB. MACNIDER.

Committee on International Pharmacological Congress—M. L. TAINTER, *Chairman;* OTTO KRAYER, H. B. VAN DYKE.

Representatives to the Council of the American Association for the Advancement of Science—ARNOLD D. WELCH, HARVEY B. HAAG.

PAST OFFICERS

1909 J. J. ABEL, President; REID HUNT, Secretary; A. S. LOEVENHART, Treasurer; S. J. MELTZER, T. SOLLMANN, C. W. EDMUNDS, A. C. CRAWFORD, Councilors. **1910** J. J. ABEL, President; REID HUNT, Secretary; A. S. LOEVENHART, Treasurer; A. C. CRAWFORD, G. B. WALLACE, Councilors. **1911** J. J. ABEL, President; REID HUNT, Secretary; A. S. LOEVENHART, Treasurer; G. B. WALLACE, W. DEB. MACNIDER, Councilors. **1912** J. J. ABEL, President; J. AUER, Secretary; A. S. LOEVENHART, Treasurer; G. B. WALLACE, REID HUNT, Councilors. **1913** T. SOLLMANN, President; J. AUER, Secretary; A. S. LOEVENHART, Treasurer; J. J. ABEL, W. DEB. MACNIDER, Councilors. **1914** T. SOLLMANN, President; J. AUER, Secretary; W. DEB. MACNIDER, Treasurer; J. J. ABEL, A. S. LOEVENHART, Councilors. **1915** T. SOLLMANN, President; J. AUER, Secretary; W. DEB. MACNIDER, Treasurer; WORTH HALE, D. E. JACKSON, Councilors. **1916** REID HUNT, President; J. AUER, Secretary; W. DEB. MACNIDER, Treasurer; A. D. HIRSCHFELDER, G. B. ROTH, Councilors. **1917** REID HUNT, President; L. G. ROWNTREE, Secretary; W. DEB. MACNIDER, Treasurer; J. AUER, CARL VOEGTLIN, Councilors. **1918** REID HUNT, President; E. D. BROWN, Secretary; W. DEB. MACNIDER, Treasurer; HUGH MCGUIGAN, CARL VOEGTLIN, Councilors. **1919** A. S. LOEVENHART, President; E. D. BROWN, Secretary; W. DEB. MACNIDER, Treasurer; REID HUNT, E. K. MARSHALL, JR., Councilors. **1920** A. S. LOEVENHART, President; E. D. BROWN, Secretary; W. DEB. MACNIDER, Treasurer; D. E. JACKSON, E. K. MARSHALL, JR., Councilors. **1921** C. W. EDMUNDS, President; E. D. BROWN, Secretary; HUGH MCGUIGAN, Treasurer; JOHN AUER, J. P. HANZLIK, Councilors. **1922** C. W. EDMUNDS, President; E. D. BROWN, Secretary; HUGH MCGUIGAN, Treasurer; J. P. HANZLIK, H. G. BARBOUR, Councilors. **1923** C. W. EDMUNDS, President; E. D. BROWN, Secretary; HUGH MCGUIGAN, Treasurer; J. P. HANZLIK, H. G. BARBOUR, Councilors. **1924** JOHN AUER, President; E. D. BROWN, Secretary; A. L. TATUM, Treasurer; J. P. HANZLIK, H. G. BARBOUR, Councilors. **1925** JOHN AUER, President; E. D. BROWN, Secretary; A. L. TATUM, Treasurer; H. G. BARBOUR, W. DEB. MACNIDER, Councilors. **1926** JOHN AUER, President; E. D. BROWN, Secretary; A. L. TATUM, Treasurer; H. G. BARBOUR, W. DEB. MACNIDER, Councilors. **1927** CARL VOEGTLIN, President; E. D. BROWN, Secretary; A. L. TATUM, Treasurer; V. E. HENDERSON, C. W. EDMUNDS, Councilors. **1928** CARL VOEGTLIN, President; E. D. BROWN, Secretary; A. L. TATUM, Treasurer; V. E. HENDERSON, C. W. EDMUNDS, Councilors. **1929** CARL VOEGTLIN, President; E. D. BROWN, Secretary; O. H. PLANT, Treasurer; V. E. HENDERSON, C. W. EDMUNDS, Councilors. **1930** GEORGE B. WALLACE, President; E. D. BROWN, Secretary; O. H. PLANT, Treasurer; H. G. BARBOUR, C. M. GRUBER, Councilors. **1931** GEORGE B. WALLACE, President; VELYIEN E. HENDERSON, Secretary; O. H. PLANT, Treasurer; PAUL D. LAMSON, WILLIAM DEB. MACNIDER, Councilors. **1932** WM. DEB. MACNIDER, President; A. N. RICHARDS, Vice-President; V. E. HENDERSON, Secretary; O. H. PLANT, Treasurer; G. B. ROTH, A. L. TATUM, Councilors. **1933** WM. DEB. MACNIDER, President; A. L. TATUM, Vice-President; V. E. HENDERSON, Secretary; O. H. PLANT, Treasurer; C. M. GRUBER, G. B. ROTH, Councilors. **1934** R. A. HATCHER, President; A. L. TATUM, Vice-President; E. M. K. GEILING, Secretary; O. H. PLANT, Treasurer; WM. DEB. MACNIDER, R. L. STEHLE, Councilors. **1935** V. E. HENDERSON, President; O. H. PLANT, Vice-

President, E. M. K. Geiling, Secretary; C. M. Gruber, Treasurer; Floyd de Eds, M. S. Dooley, Councilors. **1936** V. E. Henderson, President; O. H. Plant, Vice-President; E. M. K. Geiling, Secretary; C. M. Gruber, Treasurer; C. W. Edmunds, G. B. Wallace, Councilors. **1937** A. L. Tatum, President; E. M. K. Geiling, Vice-President; G. P. Grabfield, Secretary; C. M. Gruber, Treasurer; V. E. Henderson, M. H. Seevers, Councilors. **1938** A. L. Tatum, President; E. M. K. Geiling, Vice-President; G. P. Grabfield, Secretary; C. M. Gruber, Treasurer; E. K. Marshall, Jr., C. F. Schmidt, Councilors. **1939** O. H. Plant, President; E. M. K. Geiling, Vice-President; G. P. Grabfield, Secretary; E. E. Nelson, Treasurer; A. L. Tatum, C. A. Dragstedt, Councilors. **1940** E. M. K. Geiling, President; C. F. Schmidt, Vice-President; G. Philip Grabfield, Secretary; E. E. Nelson, Treasurer; B. H. Robbins, C. H. Thienes, Councilors. **1941** E. M. K. Geiling, President; C. F. Schmidt, Vice-President; Raymond N. Bieter, Secretary; E. E. Nelson, Treasurer; E. G. Gross, R. G. Smith, Councilors. **1942** E. K. Marshall, Jr., President; Carl A. Dragstedt, Vice-President; Raymond N. Bieter, Secretary; E. E. Nelson, Treasurer; McK. Cattell, R. G. Smith, Councilors. **1943** E. K. Marshall, Jr., President; Carl A. Dragstedt, Vice-President; Raymond N. Bieter, Secretary; E. E. Nelson, Treasurer; McK. Cattel, R. G. Smith, Councilors. **1944, 1945** E. E. Nelson, President; C. M. Gruber, Vice-President; R. N. Bieter, Secretary; McKeen Cattell, Treasurer; Harry Beckman, Nathan B. Eddy, Councilors. **1946** Maurice H. Seevers, President; H. B. Van Dyke, Vice-President; Harvey B. Haag, Secretary; McKeen Cattell, Treasurer; Hamilton H. Anderson, John C. Krantz, Jr., Councilors. **1947** Maurice H. Seevers, President; Carl A. Dragstedt, Vice-President; Harvey B. Haag, Secretary; K. K. Chen, Treasurer; Hamilton H. Anderson, John C. Krantz, Jr., Councilors. **1948** Carl A. Dragstedt, President; H. B. Van Dyke, Vice-President; Harvey B. Haag, Secretary; K. K. Chen, Treasurer; Arthur C. DeGraff, Robert A. Woodbury, Gorden A. Alles, Councilors. **1949** Carl F. Schmidt, President; J. C. Krantz, Jr., Vice-President; Harvey B. Haag, Secretary; K. K. Chen, Treasurer; Thomas C. Butler, Arthur C. DeGraff, Robert A. Woodbury, Councilors.

CONSTITUTION

Article I. *Name*

The name of this organization shall be the "American Society for Pharmacology and Experimental Therapeutics, Incorporated."

Article II. *Objects*

The purpose of this Society shall be to promote these branches of science and to facilitate personal intercourse between investigators who are actively engaged in research in these fields.

Article III. *Membership*

Section 1. Any person who has conducted and published a meritorious investigation in pharmacology or experimental therapeutics, and who is an active investigator in one of these fields, shall be eligible to membership, subject to the conditions of the other sections of Article III.

Section 2. A. Candidates for membership to this Society shall be proposed by two members who are not members of the Council. The names so proposed shall be sent to the Secretary at least three months prior to the Annual Meeting.

B. The Membership Committee shall investigate the qualifications of the candidates and report to the Council.

C. Candidates reported upon by the Membership Committee to the Council may be recommended for admission by the Council only provided they have been approved by four-fifths of the combined membership of the Membership Committee and the Council.

D. The names of the candidates recommended for admission by the Council shall be posted by the Secretary not later than the day preceding the election for members.

E. The election of members shall be by individual ballot; one opposing vote in every eight cast shall be sufficient to exclude a candidate from membership.

Section 3. *Forfeiture of Membership.*

A. Any member whose assessment is three years in arrears shall cease to be a member of the Society, unless he shall be reinstated by a special vote of the Council; and it shall be the duty of the Treasurer to inform the Secretary that he may notify the said delinquent of his right to appeal to the Council.

B. If the Council shall decide that it is for the best interests of the Society that a member be expelled, the member shall be notified and given an opportunity of a hearing before the Council. Upon the recommendation of the Council the member then may be expelled by a three-fourths vote of those present at a regular meeting of the Society.

Section 4. *Honorary Members.*

A. Distinguished men of science who have contributed to the advance of pharmacology or experimental therapeutics shall be eligible for election as honorary members of the Society.

B. Nominations for honorary members shall take the same course as nominations for ordinary

members (Art. III, Sec. 2); but their election shall require the unanimous vote of the members present at the election.

C. Honorary members shall pay no membership fee. They shall have the right to attend all meetings of the Society, and to take part in its discussions, but they shall have no vote.

D. The conditions for continuation of membership shall be the same for honorary as for ordinary members (Art. III, Sec. 3), except that forfeiture for arrears of fees does not apply to honorary members.

Article IV. *Officers and Elections*

Section 1. *Officers and Committees*

A. The management of the Society shall be vested in a Council of seven officers consisting of a President, President-Elect, Secretary, Treasurer of the Society, and three Councilors-at-Large.

B. The President-Elect, Secretary, Treasurer and one Councilor-at-Large shall be elected at each annual meeting. The Secretary and Treasurer may succeed themselves. The President-Elect shall assume the duties of President at the adjournment of the next annual meeting following his election. No person who has served as President is eligible for re-election as President-Elect.

C. The three Councilors-at-Large shall serve for a period of three years, and shall not be eligible for immediate re-election.

D. There shall be a Membership Committee, consisting of three members. No two members shall be from the same institution. The election of the Membership Committee shall be held annually at the time when the election of officers occurs. At the first meeting of the Society under this constitution, one member shall be elected to serve on the Committee for three years, one for two years, and one for one year; and subsequently one member shall be elected each year to serve for a period of three years.

E. There shall be a Nominating Committee of five members. No two members shall be from the same institution. Members of the Nominating Committee shall serve for one year. They are eligible for re-election, but shall not hold membership in the Committee for more than two consecutive years.

F. No person may hold dual membership on the Council, Membership or Nominating Committees.

G. Members of the Nominating Committee are not eligible to nomination for other office.

Section 2. *Nomination of Officials and Committeemen*

A. The Nominating Committee shall make at least one nomination for each office and for the position on the Membership Committee to be filled by vote of the members. The nominations so made shall be transmitted to the Secretary and by him in turn to the members, at least one month before the annual meeting.

B. Nominations for membership on the Nominating Committee shall be made by individual members at the time of the annual election. The five nominees who receive the highest numbers of votes shall be declared elected. The Nominating Committee shall select its own Chairman who shall serve as Secretary to the Committee.

Section 3. *Election of Officials and Committeemen*

A. At the opening of the first executive session of the annual meeting the Secretary shall give to each member present a printed ballot showing the nominations of the Nominating Committee. After accepting additional nominations from individual members present a complete list of nominees shall be posted. A preliminary vote shall then be taken and the tellers, appointed by the President to conduct the election, shall post immediately a final list showing the two nominees for each office receiving the highest number of votes. At the close of the first session, a final vote shall be taken. A majority of votes cast shall be necessary to a choice.

B. Such vacancies as may occur in the offices and in the various committees in the interval between annual meetings shall be filled by a majority vote of the Council.

Article V. *Meetings*

Section 1. The annual meeting of the Society shall be held at a time and place determined by the Council in consultation with the Executive Committee of the Federation of American Societies for Experimental Biology.

Section 2. Special meetings may be held at such times and places as the Council may determine.

Section 3. At least four weeks before the annual meeting the Secretary shall send to each member a notice of the time and place of such meeting and shall make such announcements as the Council may direct.

Article VI. *Financial*

Section 1. The annual assessment shall be determined by majority vote at the annual Spring meeting, upon the recommendation of the Council, and shall be due at the close of each such meeting.

Section 2. Beyond the ordinary expenditures required by the routine business of the Society no money shall be disbursed save by the authority of the Council or Society.

Section 3. The treasurer shall make an annual report to the Society.

Section 4. All publication funds shall be kept in a separate account, subject to the control of the Board of Publications Trustees except that

none of these funds may be diverted from the support of publications of the Society except by consent of the Council or the Society. A financial report shall be made by the Board at each annual meeting.

ARTICLE VII. *Quorum*

Ten members shall constitute a quorum for the transaction of business.

ARTICLE VIII. *By-Laws*

By-Laws shall be adopted, altered or repealed at any meeting by two-thirds vote of the ballots cast.

ARTICLE IX. *Amendments*

SECTION 1. Intended amendments to the Constitution shall be sent to the Secretary at least one month before the date of the meeting at which they are to be considered, and must be indorsed in writing by at least three members.

SECTION 2. The Secretary shall give all members due notice of proposed amendments.

SECTION 3. A four-fifths vote of the members present shall be required for the adoption of an amendment.

ARTICLE X. *Official Publications*

SECTION 1. The President of the Society shall appoint, in consultation with the Council, and subject to the approval of the Society, three members of the Society to serve as members of a Board of Publications Trustees; these members shall elect a Managing Editor for each of the official journals of the Society, and each Managing Editor, during the term of his service, shall act as an additional voting member of the Board of Publications Trustees and shall participate in all the activities of the Board except that of election of managing editors of the journals of the Society

SECTION 2. The members of the Board of Publications Trustees, hereinafter termed "The Board," shall each serve for a term of three years, shall be subject to reappointment, and may hold office concurrently in the Society. At the first appointment, however, one member shall be appointed for three years, one member for two years, and one member for one year, in order that in the future, appointments may be made annually in rotation. The Board shall meet at least once annually (a quorum shall consist of three members) and shall report directly to the Society.

SECTION 3. The special functions of The Board shall be to consider and to investigate thoroughly all matters pertaining to the fiscal and editorial policies of the journals which may come to the Society or to its Council, to the Managing Editors, and to the members of The Board. The Board shall (1) administer the finances of the journals, (2) establish the publication policies of the journals, and (3) elect a Managing Editor for each of the journals of the Society (as described in Sec. 1).

SECTION 4. The Managing Editor of each journal shall nominate to The Board, members of the Society acceptable to him as Associate Editors. In the event that the Society should develop an International Journal, foreign Associate Editors who are not members of the Society are eligible for nomination and appointment to the Editorial Board of said Journal. From those nominated, The Board shall elect, for each journal, Associate Editors in such number as they shall consider adequate to fulfill the duties of that Editorial Board. The Managing Editor and each Associate Editor shall serve for three years, subject to reappointment, and may hold office concurrently in the Society. In the choice of The Boards of Editors, The Board is charged with the responsibility of obtaining editors with expert knowledge in the several fields of pharmacological research and with evidenced ability for critical and grammatical expression.

SECTION 5. The Boards of Editors of the journals shall meet on call of the respective Managing Editor, if possible just prior to or during the regular meetings of the Society, and may make recommendations to The Board concerning the improvement of the publication policies of the journals.

BY-LAWS

1. Papers to be read shall be submitted by the members of the Society to the Secretary, who, with the President, shall be empowered to arrange the program. No person may orally present more than one paper. In case of joint authorship, the name of the individual who will orally present the paper shall stand first. Papers not read shall appear on the program as read by title.

2. An abstract of a paper to be read before the Society shall be sent to the Secretary with the title. As early as possible after each meeting, the Secretary shall edit and publish the Proceedings of the Society together with abstracts in a publication authorized by the Society.

3. All applications for membership shall be accompanied by a copy of as many reprints as possible of the published work of the applicant.

4. Any member who has been an active member for thirty years, or who has retired for disability or age, may upon notification to the Treasurer be relieved from payment of dues.

THE AMERICAN SOCIETY FOR EXPERIMENTAL PATHOLOGY, INC.

Founded December 29, 1913

OFFICERS, 1950-1951

President—JAMES F. RINEHART, University of California Medical School, San Francisco.

Vice-President—F. S. ROBSCHEIT-ROBBINS, University of Rochester School of Medicine and Dentistry, Rochester, N. Y.

Secretary-Treasurer—SIDNEY C. MADDEN, Brookhaven National Laboratory, Upton, Long Island, N. Y.

Councilors—D. MURRAY ANGEVINE (1949-51), RUSSELL L. HOLMAN (1950-52), JAMES F. RINEHART, F. S. ROBSCHEIT-ROBBINS, SIDNEY C. MADDEN.

Representative on the Division of Medical Sciences of the National Research Council—JOHN G. KIDD (1949-52).

Representatives on the Council of the American Association for the Advancement of Science—MALCOLM H. SOULE (1949-52), E. B. KRUMBHAAR (1949-52).

Representatives on the Eli Lilly Award Committee (jointly with the Society of American Bacteriologists)—*For nominations:* PAUL R. CANNON (1951). *For award:* PEYTON ROUS (1951).

Representative on the Committee for the Placement Service—DOUGLAS H. SPRUNT.

PAST OFFICERS

1914 R. M. PEARCE, President; JOHN F. ANDERSON, Vice-President; G. H. WHIPPLE, Secretary-Treasurer; HARVEY CUSHING, DAVID MARINE, Councilors. **1915** THEOBALD SMITH, President; G. H. WHIPPLE, Vice-President; PEYTON ROUS, Secretary-Treasurer; DAVID MARINE, R. M. PEARCE, Councilors. **1916** SIMON FLEXNER, President; LEO LOEB, Vice-President; PEYTON ROUS, Secretary-Treasurer; DAVID MARINE, R. M. PEARCE, Councilors. **1917** LUDVIG HEKTOEN, President; LEO LOEB, Vice-President; HOWARD T. KARSNER, Secretary-Treasurer; PAUL A. LEWIS, L. G. ROWNTREE, Councilors. **1918** H. GIDEON WELLS, President; W. G. MACCALLUM, Vice-President; HOWARD T. KARSNER, Secretary-Treasurer; L. G. ROWNTREE, LUDVIG HEKTOEN, Councilors. **1919** W. G. MACCALLUM, President; WILLIAM H. PARK, Vice-President; HOWARD T. KARSNER, Secretary-Treasurer; LUDVIG HEKTOEN, E. L. OPIE, Councilors. **1920** WILLIAM H. PARK, President; F. G. NOVY, Vice-President; HOWARD T. KARSNER, Secretary-Treasurer; E. L. OPIE, WADE H. BROWN, Councilors. **1921** F. G. NOVY, President; HOWARD T. KARSNER, Vice-President; WADE H. BROWN, Secretary-Treasurer; PAUL A. LEWIS, A. R. DOCHEZ, Councilors. **1922** HOWARD T. KARSNER, President; EUGENE L. OPIE, Vice-President; WADE H. BROWN, Secretary-Treasurer; A. R. DOCHEZ, GEORGE H. WHIPPLE, Councilors. **1923** EUGENE L. OPIE, President; ALDRED S. WARTHIN, Vice-President; WADE H. BROWN, Secretary-Treasurer; GEORGE H. WHIPPLE, H. GIDEON WELLS, Councilors. **1924** ALDRED S. WARTHIN, President; GEORGE H. WHIPPLE, Vice-President; EDWARD B. KRUMBHAAR, Secretary-Treasurer; H. GIDEON WELLS, FREDERICK L. GATES, Councilors. **1925** GEORGE H. WHIPPLE, President; WADE H. BROWN, Vice-President; EDWARD B. KRUMBHAAR, Secretary-Treasurer; FREDERICK L. GATES, DAVID MARINE, Councilors. **1926** WADE H. BROWN, President; DAVID MARINE, Vice-President; EDWARD B. KRUMBHAAR, Secretary-Treasurer; FREDERICK L. GATES, WILLIAM F. PETERSEN, Councilors. **1927** DAVID MARINE, President; EDWARD B. KRUMBHAAR, Vice-President; CARL V. WELLER, Secretary-Treasurer; WILLIAM F. PETERSEN, FREDERICK L. GATES, Councilors. **1928** EDWARD B. KRUMBHAAR, President; WILLIAM F. PETERSEN, Vice-President; CARL V. WELLER, Secretary-Treasurer; FREDERICK L. GATES, SAMUEL R. HAYTHORN, Councilors. **1929** WILLIAM F. PETERSEN, President; FREDERICK L. GATES, Vice-President; CARL V. WELLER, Secretary-Treasurer; SAMUEL R. HAYTHORN, PEYTON ROUS, Councilors. **1930** FREDERICK L. GATES, President; SAMUEL R. HAYTHORN, Vice-President; C. PHILLIP MILLER, Secretary-Treasurer; PEYTON ROUS, CARL V. WELLER, Councilors. **1931** SAMUEL R. HAYTHORN, President; PEYTON ROUS, Vice-President; C. PHILLIP MILLER, Secretary-Treasurer; CARL V. WELLER, S. BURT WOLBACH, Councilors. **1932** PEYTON ROUS, President; CARL V. WELLER, Vice-President; C. PHILLIP MILLER, Secretary-Treasurer; S. BURT WOLBACH, OSKAR KLOTZ, Councilors. **1933** CARL V. WELLER, President; S. BURT WOLBACH, Vice-President; C. PHILLIP MILLER, Secretary-Treasurer; OSKAR KLOTZ, ALPHONSE R. DOCHEZ, Councilors. **1934** S. BURT WOLBACH, President; OSKAR KLOTZ, Vice-President; SHIELDS WARREN, Secretary-Treasurer; C. PHILLIP MILLER, ALPHONSE R. DOCHEZ, Councilors. **1935** OSKAR KLOTZ, President; ALPHONSE R. DOCHEZ, Vice-President; SHIELDS WARREN, Secretary-Treasurer; MORTON MCCUTCHEON, C. PHILLIP MILLER, Councilors. **1936** ALPHONSE R. DOCHEZ, President; C. PHILLIP MILLER, Vice-President; SHIELDS WARREN, Secretary-Treasurer; MORTON MCCUTCHEON, ERNEST W. GOODPASTURE, Councilors. **1937** C. PHILLIP MILLER, President; MORTON MCCUTCHEON, Vice-

President; PAUL R. CANNON, Secretary-Treasurer; ERNEST W. GOODPASTURE, SHIELDS WARREN, Councilors. **1938** MORTON MCCUTCHEON, President; ERNEST W. GOODPASTURE, Vice-President; PAUL R. CANNON, Secretary-Treasurer; SHIELDS WARREN, JESSE L. BOLLMAN, Councilors. **1939** ERNEST W. GOODPASTURE, President; SHIELDS WARREN, Vice-President; PAUL R. CANNON, Secretary-Treasurer; JESSE L. BOLLMAN, BALDUIN LUCKÉ, Councilors. **1940** SHIELDS WARREN, President; JESSE L. BOLLMAN, Vice-President; H. P. SMITH, Secretary-Treasurer; BALDUIN LUCKÉ, PAUL R. CANNON, Councilors. **1941** JESSE L. BOLLMAN, President; BALDUIN LUCKÉ, Vice-President; H. P. SMITH, Secretary-Treasurer; PAUL R. CANNON, DOUGLAS H. SPRUNT, Councilors. **1942, 1943, 1944, 1945** BALDUIN LUCKÉ, President; PAUL R. CANNON, Vice-President; H. P. SMITH, Secretary-Treasurer; DOUGLAS H. SPRUNT, FRIEDA S. ROBSCHEIT-ROBBINS, Councilors. **1946** PAUL R. CANNON, President; DOUGLAS H. SPRUNT, Vice-President; FRIEDA S. ROBSCHEIT-ROBBINS, Secretary-Treasurer; H. P. SMITH, JOHN G. KIDD, Councilors. **1947** DOUGLAS H. SPRUNT, President; H. P. SMITH, Vice-President; FRIEDA S. ROBSCHEIT-ROBBINS, Secretary-Treasurer; JAMES F. RINEHART, JOHN G. KIDD, Councilors. **1948** H. P. SMITH, President; JOHN G. KIDD, Vice-President; FRIEDA S. ROBSCHEIT-ROBBINS, Secretary-Treasurer; JAMES F. RINEHART, SIDNEY C. MADDEN, Councilors. **1949** JOHN G. KIDD, President, JAMES F. RINEHART, Vice-President; SIDNEY C. MADDEN, Secretary-Treasurer; F. S. ROBSCHEIT-ROBBINS, D. MURRAY ANGEVINE, Councilors.

CONSTITUTION

ARTICLE I. *Name*

The Society shall be named "THE AMERICAN SOCIETY FOR EXPERIMENTAL PATHOLOGY."

ARTICLE II. *Object*

The object of this Society is to bring the productive investigators in pathology, working essentially by experimental methods, in closer affiliation with the workers in the other fields of experimental medicine.

ARTICLE III. *Time and Place of Meeting*

The Society shall meet at the same time and place as the Federation of American Societies for Experimental Biology, which comprises at present the American Physiological Society, the American Society of Biological Chemists, the American Society for Pharmacology and Experimental Therapeutics, the American Society for Experimental Pathology, the American Institute of Nutrition and the American Association of Immunologists.

ARTICLE IV. *Membership*

SECTION 1. Any American investigator who, through the use of experimental methods, has, within three years prior to his candidacy, contributed meritorious work in pathology, is eligible to membership.

SECTION 2. It shall be the policy of the Society to restrict its membership to as small numbers as is compatible with the maintenance of an active existence.

SECTION 3. There shall be two classes of members: active and honorary members.

Active members: Candidates for active membership shall be nominated at or before an annual meeting by two members of the Society. The nominators shall present to the Secretary in writing evidence of the candidate's qualifications for membership. Nominations approved by the Council shall be presented to the Society for election at the next annual meeting following nomination. For election a favorable ballot by a majority of the members present is necessary.

Honorary members: These may be elected from the active list or from the group of distinguished investigators at home or abroad who have contributed to the knowledge of pathology by experimental study. They shall be elected only by the unanimous vote of the members present at time of nomination.

SECTION 4. Active members shall pay such annual dues as are determined upon, from year to year, by the Council. Honorary members shall pay no dues, are not eligible to office, and have no vote in the business affairs of the Society, but they shall have all the privileges of the active members in the scientific proceedings.

SECTION 5. Upon failure of an active member to pay dues for two years, notice shall be given to the member by the Secretary. At the end of the third year, if dues are still unpaid, such failure constitutes forfeiture of membership.

SECTION 6. A motion for expulsion of a member must be thoroughly investigated by the Council; at this investigation the accused shall be afforded a hearing or may be represented by a member. Expulsion can be accomplished only after a unanimous vote by the Council in favor of expulsion, sustained by a four-fifths vote of the members present at the meeting.

ARTICLE V. *Officers*

The management of the Society shall be vested in a Council of five members, consisting of a President, a Vice-President, a Secretary-Treasurer, and two other members who shall be nominated by the Council and elected by the Society. Officers are elected by a majority vote and remain in office until July 1 following the Federation

Meeting. Vacancies shall be filled by the Council for the unexpired term.

The President and Vice-President shall hold office for one year and are ineligible for re-election during the following year. The Secretary-Treasurer is eligible for re-election. Councilors shall hold office for two years and are elected on alternate years. At the first election one Councilor shall be elected for a short term of one year.

Article VI. *Quorum*

Section 1. Three constitute a quorum of the Council. The Council decides by a majority vote.

Section 2. A quorum of the Society for transaction of business shall be one-fourth of the total membership. In all questions brought before the Society a majority vote of those present shall decide, except as elsewhere provided for.

Article VII. *Annual Meeting*

Section 1. Papers shall be limited to ten minutes. However, on motion and with unanimous consent, the time may be prolonged by a period not exceeding five minutes. The Council may make provision for longer papers on suitable occasions.

Section 2. The subjects of papers must be confined to experimental work in pathology. In doubtful cases a liberal interpretation by the President and Secretary may prevail. The Council may invite, however, presentations dealing with any subject which it considers of considerable interest to the Society.

Article VIII. *Change of Constitution*

A motion concerning a change of the Constitution must be presented to the Council in writing by three members, and must be communicated to the members by the Secretary at least four weeks before the annual meeting. At this meeting such a change may be established when accepted by a four-fifths vote of the members present.

BY-LAWS

1. There must be in each year at least one meeting of the Council, which shall take place not later than the evening before the annual meeting.

2. At the end of the first session of the annual meeting the Secretary shall read the report of the Council. This report shall include (1) names of persons recommended for membership, (2) nominations for offices, (3) matters of general interest. The Secretary shall exhibit in a conspicuous place the names of candidates for membership recommended by the Council, together with the evidence of the qualifications of the candidates.

3. The election of officers and of new members, changes in the Constitution, etc., shall be voted upon at the end of the first session.

4. Changes in the By-Laws may be determined by a majority vote of those present.

5. In the year that a new Secretary-Treasurer is elected the incoming Council Member elected that year, or another member of the Council, shall become Assistant Secretary-Treasurer for the duration of the term of the Secretary-Treasurer.

AMERICAN INSTITUTE OF NUTRITION, INC.

Founded April 11, 1933; Incorporated November 16, 1934
Member of Federation 1940

OFFICERS, 1950–1951

President—W. H. GRIFFITH, University of Texas Medical School, Galveston.

Vice-President—C. M. MCCAY, Cornell University, Ithaca, N. Y.

Secretary—J. H. ROE, George Washington University School of Medicine, Washington, D. C.

Treasurer—N. B. GUERRANT, Pennsylvania State College, State College, Pa.

Council—E. N. TODHUNTER, A. H. SMITH, W. C. RUSSELL, W. H. GRIFFITH, C. M. MCCAY, J. H. ROE, N. B. GUERRANT.

Nominating Committee—W. J. DARBY, *Chairman;* O. A BESSEY, A. G. HOGAN, L. A. MAYNARD, A. H. SMITH.

Committee on Registry of Nutritional Pathology—R. E. JOHNSON, *Chairman;* O. A. BESSEY, P. L. PHILLIPS, W. H. SEBRELL.

Representatives on Committee on Biochemical Nomenclature (joint with American Society of Biological Chemists)—H. J. ALMQUIST, C. A. ELVEHJEM.

PAST-OFFICERS

1933 L. B. MENDEL, President; H. C. SHERMAN, Vice-President; J. R. MURLIN, Secretary-Treasurer; E. F. DUBOIS, M. S. ROSE, Councilors. **1934** J. R. MURLIN, President; E. F. DUBOIS, Vice-President; ICIE G. MACY, Secretary; W. M. BOOTHBY, Treasurer; A. H. SMITH, AGNES FAY MORGAN, R. M. BETHKE, Councilors. **1935** J. R. MURLIN, President; E. F. DUBOIS, Vice-President; ICIE G. MACY, Secretary; G. R. COWGILL, Treasurer; A. H. SMITH, R. M. BETHKE, L. A. MAYNARD, Councilors. **1936** E. F. DUBOIS, President; MARY SWARTZ ROSE, Vice-President; G. R. COWGILL, Treasurer; ICIE G. MACY, Secretary; R. M. BETHKE, L. A. MAYNARD, C. A. ELVEHJEM, Councilors. **1937** MARY S. ROSE, President; E. V. MCCOLLUM, Vice-President; G. R. COWGILL, Treasurer; ICIE G. MACY, Secretary; L. A. MAYNARD, C. A. ELVEHJEM, P. E. HOWE, Councilors. **1938** E. V. MCCOLLUM, President; T. M. CARPENTER, Vice-President; G. R. COWGILL, Treasurer; L. A. MAYNARD, Secretary; C. A. ELVEHJEM, P. E. HOWE, HELEN S. MITCHELL, Councilors. **1939** H. C. SHERMAN, President; T. M. CARPENTER, Vice-President; G. R. COWGILL, Treasurer; L. A. MAYNARD, Secretary; P. E. HOWE, HELEN S. MITCHELL, A. H. SMITH, Councilors. **1940** THORNE M. CARPENTER, President; A. G. HOGAN, Vice-President; L. A. MAYNARD, Secretary; W. H. SEBRELL, JR., Treasurer; HELEN S. MITCHELL, ARTHUR H. SMITH, LYDIA J. ROBERTS, Councilors. **1941** A. G. HOGAN, President; L. A. MAYNARD, Vice-President; ARTHUR H. SMITH, Secretary; W. H. SEBRELL, JR., Treasurer; T. H. JUKES, LYDIA J. ROBERTS, H. B. LEWIS, Councilors. **1942** L. A. MAYNARD, President; H. B. LEWIS, Vice-President; ARTHUR H. SMITH, Secretary; W. H. SEBRELL, JR., Treasurer; LYDIA J. ROBERTS, GENEVIEVE STEARNS, T. H. JUKES, Councilors. **1943** H. B. LEWIS, President; ICIE G. MACY-HOOBLER, Vice-President; ARTHUR H. SMITH, Secretary; LYDIA J. ROBERTS, GENEVIEVE STEARNS, T. H. JUKES, Councilors. **1944** ICIE G. MACY-HOOBLER, President; WM. C. ROSE, Vice-President; ARTHUR H. SMITH, Secretary; E. M. NELSON, Treasurer; GENEVIEVE STEARNS, T. H. JUKES and C. A. ELVEHJEM, Councilors. **1945** WM. C. ROSE, President; ARTHUR H. SMITH, Vice-President; H. E. CARTER, Secretary; E. M. NELSON, Treasurer; T. H. JUKES, C. A. ELVEHJEM, D. W. WOOLLEY, Councilors. **1946** ARTHUR H. SMITH, President; R. M. BETHKE, Vice-President; H. E. CARTER, Secretary; E. M. NELSON, Treasurer; C. A. ELVEHJEM, D. W. WOOLLEY, H. J. ALMQUIST, Councilors. **1947** R. M. BETHKE, President; E. M. NELSON, Vice-President; H. E. CARTER, Secretary; N. R. ELLIS, Treasurer; D. W. WOOLLEY, H. J. ALMQUIST, A. D. HOLMES, Councilors. **1948** E. M. NELSON, President; C. G. KING, Vice-President; J. H. ROE, Secretary; N. R. ELLIS, Treasurer; H. J. ALMQUIST, A. D. HOLMES, E. N. TODHUNTER, Councilors. **1949** C. G. KING, President; W. H. GRIFFITH, Vice-President; J. H. ROE, Secretary; N. R. ELLIS, Treasurer; A. D. HOLMES, E. N. TODHUNTER, A. H. SMITH.

CONSTITUTION

1. The name of the proposed society is the "AMERICAN INSTITUTE OF NUTRITION."

2. The purposes of the society are to further the extension of the knowledge of nutrition and to facilitate personal contact between investigators in nutrition and closely related fields of interest.

3. The management of the American Institute of Nutrition shall be vested in a council consisting of the President, Vice-President, Secretary, Treasurer and three additional members.

BY-LAWS

ARTICLE I. *Membership*

SECTION 1. *Eligibility for membership:* Members. Qualified investigators who have independently

conducted and published meritorious original investigations in some phase of the chemistry or physiology of nutrition and who have shown a professional interest in nutrition for at least 5 years shall be eligible for membership in the Society.

SECTION 2. *Nomination:* Nominations for membership shall be made and seconded by members of the Society on blanks furnished by the Secretary. Nominations shall be submitted to the Council who shall determine eligibility and make recommendation to the Society at a regular meeting.

SECTION 3. *Election to membership:* A. A nominee for membership may be voted for by ballot at any meeting of the Society after the Council has reported its findings on his eligibility. B. A majority of the ballots cast shall elect.

SECTION 4. *Forfeiture:* If a majority of the Council after due notice to the member in question and opportunity for a hearing, shall decide that the interests of the Society require the expulsion of a member, the Secretary shall send a notice of this decision to each member at least two weeks before the next annual meeting. At this meeting the Secretary shall, on behalf of the Council, propose the expulsion; and if two-thirds of the members present vote for it, the member shall be expelled, his assessment for the current year shall be returned to him, and he shall cease to be a member of the Society.

ARTICLE II. *Meetings and Quorum*

SECTION 1. *Annual:* The annual meeting of the Society shall be held on the date fixed by the Certificate of Incorporation.

SECTION 2. *Special:* A special meeting may be called at any time by the President, or in case of his absence or disability, by the Vice-President, and must be called at the request in writing of a majority of the Council or fifty members of the Society. Notice specifying the purpose of such meeting shall be mailed to each member at least ten days previous thereto. The Council shall select the places at which meetings shall be held.

SECTION 3. *Quorum:* Thirty members shall constitute a quorum at all meetings of the Society, but in the absence of a quorum any number shall shall be sufficient to adjourn to a fixed date.

ARTICLE III. *Officials*

SECTION 1. *Officers:* The officers shall be a President, and a Vice-President, who shall be elected annually, and a Secretary and Treasurer, each of whom shall be elected to serve for a term of three years. These officers shall be elected by the members of the Society. Their terms of office shall commence on July 1 of the year in which they are elected.

SECTION 2. *Council:* The officers so selected and three additional members, one of whom shall be elected at each annual meeting to serve a term of three years, shall constitute a Board of Trustees and shall be known as "The Council." (When this provision is first put into effect one member shall be elected for 1 year, one for 2 years and the third for 3 years.)

SECTION 3. *Duties of Officers:* The powers and duties of the officers elected by the Society shall be such as usually devolve upon their respective positions.

ARTICLE IV. *The Council*

SECTION 1. *Powers:* The general management of the Society during the intervals between meetings shall be vested in the Council, which shall regularly perform the ordinary duties of an executive committee and possess all the powers conferred upon the Board of Trustees of an educational institution chartered by the Education Department of the University of the State of New York. A permanent charter was issued to the American Institute of Nutrition under date of November 16, 1934.

SECTION 2. *Reports:* The Council shall report to the Society its findings on the eligibility of candidates for membership, and on all charges of a violation of these By-Laws.

ARTICLE V. *Nominating Committee*

SECTION 1. *Membership:* A. The Nominating Committee shall consist of five members appointed for the coming year by the retiring President. Members who have served on the Nominating Committee for two consecutive years shall be ineligible for reappointment until after a lapse of one year. B. The President shall designate one member to be Chairman of the Nominating Committee.

SECTION 2. *Nomination of Officials:* A. The Nominating Committee shall make at least one nomination for each of the four offices, for each of the additional positions on the Council to be filled by vote of the members and for each of the positions on the Editorial Board to be vacated at the time of the annual meeting. Any member of the Institute may submit nominations to the Nominating Committee for its consideration along with those nominations made by the members of the Nominating Committee. B. The nominations by the Nominating Committee shall be transmitted to the Secretary at least six weeks before the annual meeting at which they are to be considered. C. The Secretary shall send to every member, at least two weeks before the annual meeting, a printed ballot containing the list of nominees and space for such additional names as the mem-

ber wishes to propose, and at the same time shall notify the members that they may vote by mail, returning to the Secretary the marked ballot in the envelope provided, at such a time and place as the Secretary may designate, or the ballot may be delivered to the Secretary at the beginning of the business session at which the elections are to take place.

SECTION 3. *Election of officials:* A. At the beginning of the business session the Secretary shall present to the tellers, appointed by the President, the ballots submitted by the members and the ballots shall be counted forthwith. B. A majority of votes cast shall be necessary to elect an official.

SECTION 4. *Filling of Vacancies:* A. The Nominating Committee shall fill all vacancies in elective positions except such as may occur at a meeting of the Society. B. The President of the Society shall fill all vacancies in appointive positions.

ARTICLE VI. *Financial*

SECTION 1. *Dues:* The dues shall be the annual cost of subscription to The Journal of Nutrition for members plus an annual assessment which shall be determined by majority vote at the annual meetings, upon recommendation of the Council, and shall be due within a month after the annual meeting. A member on attaining the age of 65 may elect to be relieved from all financial obligations to the Institute including subscription to The Journal of Nutrition.

SECTION 2. *Expenditures:* No expenditures from the general funds of the Society except those required in the performance of the ordinary official duties shall be made except by vote of the Society or the Council.

SECTION 3. *Penalty for non-payment of dues:* A. Members in arrears for dues for two consecutive years shall forfeit their membership. B. Delinquent members may be reinstated by the Council provided all indebtedness to the Society is liquidated.

ARTICLE VII. *The Journal of Nutrition*

SECTION 1. The American Institute of Nutrition designates *The Journal of Nutrition* as its official organ of publication.

SECTION 2. In accordance with the expressed wish of the Wistar Institute of Anatomy and Biology, owner and publisher of *The Journal of Nutrition*, the American Institute of Nutrition shall nominate members of the Editorial Board for its official organ. A. The editorial management of *The Journal of Nutrition* shall be vested in an Editorial Board consisting of an Editor and twelve Board Members. B. The Editor shall be chosen by the Editorial Board to serve a term of five years beginning July 1 of the year in which he is chosen, and shall be eligible for reëlection. The Editor shall have the power to designate one of the Board Members to serve as his assistant, and such an appointee shall be called Associate Editor. C. Three members of the Institute shall be nominated by the Nominating Committee for membership on the Editorial Board each year to serve a term of four years, replacing three retiring members and taking office May 1 of the year in which they are elected. In the event of a vacancy in the membership of the Editorial Board occurring through death or other reason, the Nominating Committee, for each such vacancy to be filled shall make an additional nomination. In this event the nominees elected who receive the greatest number of votes shall serve the longest term of vacancies to be filled. D. Retiring members of the Editorial Board shall not be eligible for renomination until one year after their retirement.

ARTICLE VIII. *Papers on Scientific Subjects*

SECTION 1. The Secretary shall be authorized to arrange programs for the scientific sessions at the annual meetings.

ARTICLE IX. *Changes in Constitution and By-Laws*

SECTION 1. Proposed changes in the Constitution and By-Laws must be sent in writing to the Secretary at least one month before the date of the meeting at which they are to be considered, and must be signed by at least three members. The Secretary shall send a printed copy of any proposed change to each member at least two weeks before the next meeting and shall notify all members that they may vote by proxy.

SECTION 2. If at this meeting two-thirds of the votes cast shall favor the proposed change, it shall be made.

THE AMERICAN ASSOCIATION OF IMMUNOLOGISTS

Founded June 19, 1913; Member of Federation 1942

OFFICERS, 1950–1951

President—GEOFFREY EDSALL, Boston University School of Medicine, Boston, Mass.

Honorary President—ARTHUR F. COCA, Oradell, N. J.

Vice-President—COLIN M. MACLEOD, New York University College of Medicine, New York City.

Secretary-Treasurer—JULES FREUND, Public Health Research Institute, New York City.

Council—THOMAS FRANCIS, JR., JOHN F. ENDERS, THOMAS P. MAGILL, MICHAEL HEIDELBERGER, GEOFFREY EDSALL, COLIN M. MACLEOD, JULES FREUND.

PAST OFFICERS

Presidents—**1913** GERALD B. WEBB. **1915** JAMES W. JOBLING. **1916** RICHARD WEIL. **1917** JOHN A. KOLMER. **1918** WILLIAM H. PARK. **1919** HANS ZINSSER. **1920** RUFUS I. COLE. **1921** FREDERICK P. GAY. **1922** GEORGE W. MCCOY. **1923** H. GIDEON WELLS. **1924** FREDERICK G. NOVY. **1925** WILFRED H. MANWARING. **1926** LUDVIG HEKTOEN. **1927** KARL LANDSTEINER. **1928** EUGENE L. OPIE. **1929** OSWALD T. AVERY. **1930** STANHOPE BAYNE-JONES. **1931** ALPHONSE R. DOCHEZ. **1932** AUGUSTUS B. WADSWORTH. **1933** THOMAS M. RIVERS. **1934** FRANCIS G. BLAKE. **1935** WARFIELD T. LONGCOPE. **1936** SANFORD B. HOOKER. **1937** CARL TENBROECK. **1938** DONALD T. FRASER. **1939** GEORGE P. BERRY. **1940** PAUL R. CANNON. **1941** KARL F. MEYER. **1942–1945** JACQUES J. BRONFENBRENNER. **1945–1947** MICHAEL HEIDELBERGER. **1947** LLOYD D. FELTON. **1948** MICHAEL HEIDELBERGER. **1949** THOMAS FRANCIS, JR.

Vice-Presidents—**1913–1915** GEORGE W. ROSS. **1915** GEORGE P. SANBORN. **1916** JOHN A. KOLMER. **1947** MICHAEL HEIDELBERGER. **1948** LLOYD D. FELTON. **1949** MICHAEL HEIDELBERGER.

Secretary—**1913–1918** MARTIN J. SYNOTT.

Treasurer—**1913–1918** WILLARD J. STONE.

Secretary-Treasurer—**1918–1947** ARTHUR F. COCA. **1948–1949** JULES FREUND.

CONSTITUTION

(*As revised, 1949*)

ARTICLE I. *Name*

This association shall be called THE AMERICAN ASSOCIATION OF IMMUNOLOGISTS.

ARTICLE II. *Object*

The purpose of the Association shall be to advance knowledge of immunology and related disciplines, and to facilitate interchange of ideas and information among investigators in the various fields.

ARTICLE III. *Members*

SECTION 1. The Association shall consist of active members, members emeriti and honorary members.

SECTION 2. Any qualified person engaged in the study of problems related to the purpose of the Association may apply for active membership. Candidates for active membership shall be nominated by two members of the Association on blanks furnished by the Secretary. Applications must be accompanied by letters of recommendation of the sponsors, a curriculum vitae, and a list of reprints of publications. The Council shall determine eligibility and post a list of candidates at the annual meeting. The membership shall elect new members by majority vote.

SECTION 3. Failure to pay dues for three successive years shall annul membership. The Council may reinstate a member if an acceptable explanation is submitted and all indebtedness to the Association is liquidated. Payment of such indebtedness may be waived by unanimous vote of the Council if circumstances justify such action.

SECTION 4. If a two-thirds majority of the Council decides that the best interests of the Association require the expulsion of a member, the Secretary shall notify the affected member in writing of the charges. The Council shall allow a reasonable time for the presentation of his defense before acting. Upon recommendation of a two-thirds majority of the Council, the Secretary shall send a notice of the decision to each active member at least six weeks before the next annual meeting. At this meeting the Secretary shall, on behalf of the Council, propose the expulsion; and on a two-thirds vote of the members present, the member shall be expelled, his assessment for the current year shall be returned, and he shall cease to be a member of the Association.

SECTION 5. An active member of the Association for twenty years upon retirement because of age or disability, may elect to accept the status of member emeritus. As such he shall retain voting privileges but shall be relieved of all financial obligations to the Association and shall not receive the Journal without payment.

SECTION 6. The Council may nominate for honorary membership persons of extraordinary achievement in the field of endeavor of this Association. Election to honorary membership shall

follow the same procedure as that for election for office in the Association, and the Secretary, on order of the Council, shall place nominations for honorary membership on the annual ballot.

ARTICLE IV. *Officers*

SECTION 1. The Association shall be governed by a Council, which shall consist of the Officers of the Association and five Councilors, one of whom shall be the Editor-in-Chief of the Journal of Immunology.

SECTION 2. The Officers of the Association shall be a President, a Vice President, a Secretary, and a Treasurer. The duties of the two latter may be performed by one or two individuals as determined by vote of the Association. (See By-Law # 7.)

SECTION 3. The President, the Vice President, the Secretary, and the Treasurer shall be elected at the regular annual meeting of the Association to serve for one year. Only the Secretary and the Treasurer are eligible to serve for successive terms in their respective offices. The term of office shall begin the day after the end of the annual meeting.

SECTION 4. One Councilor shall be elected each year to serve for a term of four years. He may however serve in any other elective office immediately after expiration of his term as Councilor.

SECTION 5. The President shall appoint a Nominating Committee of three (or more) members not currently serving on the Council of the Association and shall designate the Chairman. The Committee shall submit nominations for the offices of President, Vice President, Secretary, Treasurer, and Councilor. They may nominate the member currently serving as Vice President for the office of President, and the Councilor who is serving his fourth year for the office of Vice President. They shall submit the names of three members of the Association as candidates for the office of Councilor for a four-year term. The Nominating Committee shall confer at least three months before the annual meeting and shall transmit its nominations, over the signatures of the majority of the Committee, to the Secretary at least two months before the annual meeting. Other names may be added to the ballot upon petition of at least twenty-five members of the Association to the Secretary at least two months before the annual meeting. The Secretary shall send to each member of the Association, at least six weeks before the annual meeting, a ballot containing the list of all such nominees.

SECTION 6. The members of the Association shall vote on the nominations by secret ballot by mail. All ballots must be in the hands of the Secretary one week before the annual meeting. At the time of the annual meeting the Secretary shall present all the valid sealed ballots received by him to the tellers appointed by the President. A plurality of votes shall be sufficient for election.

SECTION 7. The Vice President shall substitute for the President when necessary. If both the President and Vice President are unable to serve, the senior Councilor shall temporarily assume the duties of President. Should a vacancy occur in the office of Secretary or Treasurer, or Councilor, the Council by a majority vote shall appoint a member to fill the unexpired term until the following election. In the event of a vacancy in the Council, the members shall in the following election choose two Councilors from among six nominees whose names shall be selected by the Nominating Committee and included on the ballot as above. Moreover, in this event the terms of the four Councilors shall be adjusted so as to provide an orderly progression within the general sense of the Constitution.

ARTICLE V. *Meetings*

SECTION 1. A regular meeting of the Association shall be held annually at such time and place as the Council shall determine. Regular meetings shall be open to all members of the Association. The members present at the annual meeting of the Association shall constitute a quorum.

SECTION 2. A meeting of the Council shall be held prior to the annual business meeting of the Association. A quorum of the Council for this meeting shall be five.

SECTION 3. In case of equal division of votes, the President shall cast the decisive ballot.

SECTION 4. Minutes of the annual meeting of the Council and of the annual business meeting of the Association shall be published in the form of a news-letter and be distributed only to members of the Association. The annual report of the Treasurer shall be included in this news-letter.

ARTICLE VI. *Business*

SECTION 1. The fiscal year of the Association shall begin March first.

SECTION 2. Annual dues, upon recommendation of the Council, shall be determined by a majority vote at the annual meeting of the Association.

ARTICLE VII. *Publication*

SECTION 1. The Journal of Immunology, which is the property and official organ of this Association, shall be administered for the Association by an Editorial Board.

SECTION 2. An Editor-in-Chief shall be elected from the membership by a majority vote of the Council to serve for four years. His term of office shall be subject to renewal. He shall appoint with the consent of the Council an Editorial Board of four to six members to serve for four years. The Editor-in-Chief and the members of the Edi-

torial Board shall be responsible for the editorial conduct of the Journal.

SECTION 3. The Editor-in-Chief shall, with the consent of the Council, appoint from the active members Associate Editors as needed. These Associate Editors are to be chosen because of their ability in specialized fields.

SECTION 4. The Editor-in-Chief shall make a report of his stewardship of the Journal at the annual meeting and in this report shall summarize the editorial situation and all matters dealing with finances. He shall submit to the Council statements relating to the number of manuscripts received, rejected, accepted, and published during the year; changes in editorial personnel of editors; a complete summary of circulation and of finances and of any other information which the Editorial Board may feel to be pertinent or which may be required by the Council.

ARTICLE VIII. *Amendments*

SECTION 1. Proposed changes in the Constitution shall be submitted by at least five members in writing through the Secretary to the President. The President shall then appoint a committee of at least three members which shall communicate its recommendations to the President for consideration by the Council. The Council shall then advise the Secretary to submit the recommendations of the committee to the membership of the Association for approval with the annual ballot. A change in the Constitution shall require a two-thirds majority of the votes cast by the members at the annual meeting and shall require confirmation by a majority in a mail vote in which at least 50% shall have participated.

SECTION 2. As an alternative procedure a proposed change in the Constitution may be submitted directly to the Council by petition of one-tenth of the total active membership. Under this circumstance the Council is required to arrange for a vote by the members as heretofore described.

SECTION 3. Proposed changes in By-Laws may be adopted by two-thirds vote of members present at the annual meeting.

BY-LAWS

1. The Past Presidents shall have the right of attending, without vote, the meetings of the Council.

2. The President may appoint a Past President or a Past Councilor as pro tempore Councilor at any stated meeting of the Council at which a quorum is not present.

3. The Council may transact and vote by mail on such business as cannot be conveniently transacted at meetings.

4. The Secretary shall arrange the program for the scientific meetings, with the advice of the other officers of the Association. Any member in good standing shall have the right to submit a paper. The privilege of presentation may be extended to non-members upon recommendation of active members. Papers intended for presentation at the meetings shall conform to the standards of the Journal of Immunology. In case of doubt, the Secretary shall have the right to submit papers to the scrutiny of three or more members of the Editorial Board of the Journal of Immunology whose decision shall be final.

5. Each member who signifies his intention of reading a paper at any session may specify the length of time which its presentation shall require. In the absence of any specification of time required not more than ten minutes shall be allotted for the reading of any one paper. The time allotted shall be printed on the official program, and the presiding officer shall have no authority to extend it unless a majority of the members present signify their wish to the contrary.

6. If by force of circumstances it should be impossible to hold the annual meeting, the election of Officers and Council may be carried out entirely by mail.

7. The offices of Secretary and Treasurer are combined and shall be held by one person.

8. Official or invited addresses presented at the annual meeting shall be given immediate priority in publication, unless the Editor-in-Chief shall be otherwise instructed by majority vote of the Council.

9. Dues are payable on or before January 1st and subscriptions to the Journal will be lapsed if not paid by this date.

10. If the Editor-in-Chief is unable to attend the stated meeting of the Council, he may designate an alternate from the membership of the Editorial Board.

ALPHABETICAL LIST OF MEMBERS OF THE SIX SOCIETIES

(1) The American Physiological Society
(2) American Society of Biological Chemists
(3) The American Society for Pharmacology and Experimental Therapeutics
(4) The American Society for Experimental Pathology
(5) The American Institute of Nutrition
(6) The American Association of Immunologists

Number and year in parentheses following each name indicate Society affiliation and year of election
***R** signifies retired status*

HONORARY MEMBERS

Adrian, E. D. Cambridge University, Dept. of Physiology, Cambridge, England. (**1,** 1946)

Bremer, Frederick, M.D. 115 Boulevard de Waterloo, Brussels, Belgium. *Prof. of Pathology, Univ. of Brussels; Dir. of Lab. of General Pathology; Pres. of College des Medecins de l'Agglomerstion de Bruxelloise.* (**1,** 1950)

Chopra, R. N., M.D., Sc.D. School of Tropical Medicine, Calcutta, India. *Director; Professor of Pharmacology.* (**3,** 1938)

Coca, Arthur F., A.M., M.D. Pearl River, N. Y. (**6,** 1916)

Dale, H. H., O.M., G.B.E., M.D., F.R.C.P., F.R.S. The Wellcome Trust, 28 Portman Sq., Malet St., London, W. 1, England. (**3,** 1926)

Hektoen, Ludvig, M.D. 629 S. Wood St., Chicago, Ill. *President, Chicago Tumor Institute.* (**6,** 1919)

Hess, Walter Rudolf, M.D. Univ. of Zurich, Physiological Inst., Zurich, Switzerland. *Dir., Swiss Physiological Inst.* (**1,** 1950)

Hill, Archibald Vivian, C.H., O.B.E., Sc.D., L.L. D., F.R.S. 16 Bishopswood Rd., London N. 6, England. *Foulerton Research Prof. of Royal Society, Univ. College, London.* (**1,** 1950)

Houssay, Bernardo A., M.D. Viamonte 2790, Buenos Aires, Argentina. *Director and Professor of Physiology.* (**1,** 1942)

Lapicque, L. The Sorbonne, Laboratory of Physiology, Paris, France. (**1,** 1946)

Liljestrand, Gornan, M.D. Caroline Inst., Stockholm, Sweden. *Prof. of Pharmacology.* (**1,** 1950)

Loewi, Otto, M.D. 155 E. 93rd St., New York City 28. *Research Professor in Pharmacology,* N.Y.U. College of Med. (**3,** 1941)

McCoy, George Walter, M.D. Louisiana State University Medical School, New Orleans. *Director, Department of Public Health.* (**6,** 1916)

Novy, Frederick G., M.D., Sc.D. 721 Forest Ave., Ann Arbor, Mich. *Dean Emeritus and Professor Emeritus of Bacteriology, University of Michigan Medical School.* (**6,** 1920)

Orbeli, L. A. Academy of Sciences of the USSR, Moscow, USSR. (**1,** 1946)

Sherrington, Sir Charles S., Sc.D., M.D. "Broomside," Valley Road, Ipswich, England, *Former Wayneflete Professor of Physiology, Oxford University: Former President of the Royal Society.* (**1,** 1904)

MEMBERS

Abbot, Lynn D. F., Jr. Ph.D. Med. College of Virginia, Richmond 19. *Assoc. Prof. of Biochemistry.* (**2,** 1948)

Abramson, David I., M.D. Univ. of Illinois, Dept. of Medicine, Chicago 12. *Asst. Clin. Prof.: Attending Physician, Hines Veterans Hospital.* (**1,** 1937)

Abramson, Harold A., M.D. Mt. Sinai Hospital, New York City. *Chief, Allergy Clinic; Asst. Prof. of Physiology, Columbia Univ. College of Physicians and Surgeons.* (**1,** 1930; **2,** 1934)

Abreu, Benedict E., Ph.D., M.D. Pitman-Moore Co., Indianapolis, Ind. *Pharmacologist, Research Dept.* (**3,** 1941)

Acheson, George H., M.D. Univ. of Cincinnati College of Medicine, Cincinnati, Ohio. *Prof. of Pharmacology.* (**1,** 1942; **3,** 1945)

Adams, Georgian, M.A., D.Sc. U.S. Dept. of Agriculture, Washington 25, D. C. *Sr. Exper. Station Admin.* (**5,** 1946)

Adams, John M., M.D. Univ. of California, 405 Hilgard Ave., Los Angeles 24. *Prof. of Pediatrics.* (**4,** 1947)

Adams, Mildred, Ph.D. Agricultural Research Center, Bureau of Human Nutrition and Home Economics, Beltsville, Md. *Biochemist, Food and Nutrition.* (**2,** 1934)

Adams, R. Charles, C.M., M.D. Mayo Clinic, Rochester, Minn. *Assoc. Prof. of Anesthesiology, Mayo Foundation; Consultant, Mayo Clinic, Section on Anesthesia.* (**3,** 1942)

Adams, W. Lloyd, M.D., Ph.D. 1300 First Natl. Bank Bldg., Lexington 6, Ky. *Practicing Ophthalmologist.* (**3,** 1942)

Adams, Wright R., M.D. Univ. of Chicago, Dept.

of Medicine, Chicago 37, Ill. *Assoc. Prof. of Medicine.* (**1**, 1946)

Addison, William H., M.D. Univ. of Pennsylvania, Philadelphia. *Prof. Emeritus of Histology and Embryology.* (**1R**, 1928)

Ades, Harlow Whiting, Ph.D. Box 734, Emory Univ., Ga. (**1**, 1945)

Adler, Harry F., Ph.D., M.D. School of Aviation Medicine, Randolph A.F.B., Tex. *Dir. Med. Sciences Div.* (**1**, 1943)

Adolph, Edward Frederick, Ph.D., Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. of Physiology.* (**1**, 1921)

Adolph, William H., Ph.D. 25 Maple St., New Haven, Conn. *Prof. of Biochemistry, Peiping Union Med. College, Peiping, China.* (**2**, 1946; **5**, 1934)

Ahlquist, Raymond P., Ph.D. Med. College of Georgia, Augusta. *Prof. and Chairman of Dept. of Pharmacology.* (**3**, 1945)

Albanese, Anthony A., Ph.D. St. Luke's Convalescent Hospital, Nutrition Research Lab., King St., Greenwich, Conn. *Chief of Nutritional Research.* (**2**, 1944)

Albaum, Harry G., Ph.D. Brooklyn College, Bedford Ave. and Ave. H, Brooklyn, N. Y. *Asst. Prof. of Biology.* (**2**, 1947)

Albert, A., Ph.D., M.D. Mayo Foundation, Rochester, Minn. *Research Assoc.* (**1**, 1947)

Albritton, Errett C., M.D. George Washington Univ. Med. School, 1339 H St., N.W., Washington, D. C. *Prof. and Head of Dept. of Physiology.* (**1**, 1933)

Alden, Roland H., Ph.D. Univ. of Tennessee, College of Medicine, Memphis 3. *Prof. and Head, Dept. of Microscopic Anatomy.* (**1**, 1949)

Alexander, Robert S., Ph.D. Western Reserve Univ. School of Medicine, 2109 Adelbert Rd., Cleveland, Ohio. *Instr. in Physiology.* (**1**, 1946)

Algire, Glenn H., M.D. Natl. Cancer Inst., Bethesda, Md. *Sr. Surgeon, USPHS.* (**4**, 1945)

Allan, Frank N., M.D. Lahey Clinic, 605 Commonwealth Ave., Boston, Mass. *Exec. Dir. of the Med. Dept.* (**4**, 1930)

Allen, Charles Robert, Ph.D., M.D. Univ. of Texas School of Medicine, Galveston. *Assoc. Prof. of Anesthesiology.* (**1**, 1943)

Allen, Frank W., Ph.D. Univ. of California, 1557 Life Science Building, Berkeley. *Assoc. Prof.* (**2**, 1947)

Allen, Frederick M., M.D. 1031 Fifth Ave., New York City. *Prof. of Medicine, Polyclinic Med. School and Hospital.* (**1R**, 1924; **4**, prior to 1920)

Allen, J. Garrott, M.D. Univ. of Chicago, Univ. Clinics, Chicago, Ill. *Instr. in Surgery.* (**1**, 1943)

Allen, Lane, Ph.D., M.D. Med. College of Georgia, Univ. Place, Augusta. *Assoc. Prof. of Anatomy.* (**1**, 1939)

Allen, Shannon C., Ph.D. U.S.A.F. School of Aviation Medicine, Randolph A.F.B., Tex. *Chief, Applied Human Biology Branch.* (**1**, 1945)

Allen, Thomas H., Ph.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Physiology, 630 W. 168th St., New York City 32. *Asst. Prof. of Physiology.* (**1**, 1947)

Allen, Willard E., M.D. Washington Univ. School of Medicine, 630 S. Kingshighway, St. Louis, Mo. *Prof. of Obstetrics and Gynecology.* (**1**, 1934)

Allen, William F., Ph.D. Univ. of Oregon Med. School, Portland. *Prof. Emeritus of Anatomy.* (**1R**, 1929)

Alles, Gordon A., Ph.D. 770 S. Arroyo Parkway, Pasadena, Calif. *Lecturer in Pharmacology, Univ. of California Med. School, and Research Assoc. in Biology, California Inst. of Technology.* (**1**, 1932; **3**, 1941)

Alling, Eric L., M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 7, N. Y. *Assoc. in Radiology.* (**4**, 1947)

Allison, James B., Ph.D. Rutgers Univ., New Brunswick, N. J. *Prof. of Physiology and Biochemistry; Dir. of Bureau of Biological Research.* (**2**, 1946; **5**, 1949)

Almquist, Herman J., Ph.D. The Grange Co., Modesto, Calif. *Dir. of Research and Vice-Pres.* (**2**, 1937; **5**, 1937)

Altland, Paul D., Ph.D. Natl. Insts. of Health, Bethesda, Md. *Physiologist.* (**1**, 1950)

Altschul, Aaron M., Ph.D. Southern Regional Research Lab., USDA, 2100 R. E. Lee Blvd., New Orleans, 19, La. *Head, Protein and Carbohydrate Div.* (**2**, 1949)

Alvarez, Walter C., M.D. Mayo Clinic, Rochester, Minn. *Prof. of Medicine, Mayo Foundation.* (**1R**, 1917; **3R**, 1921)

Alving, Alf Sven, M.D. Billings Hospital, Univ. of Chicago, 950 E. 59th St., Chicago, Ill. *Assoc. Prof. of Medicine.* (**1**, 1939)

Amberg, Samuel, M.D. Mayo Clinic, Rochester, Minn. *Assoc. Prof. Emeritus of Pediatrics, Mayo Foundation.* (**1R**, 1903; **2**, 1906; **3R**, 1909)

Amberson, William R., Ph.D. Univ. of Maryland School of Medicine, Baltimore. *Prof. of Physiology.* (**1**, 1924)

Ambrose, Anthony M., Ph.D. Western Regional Research Lab., 800 Buchanan St., Albany, Calif. *Pharmacologist, U. S. Dept. of Agriculture, Pharmacology Research Lab.* (**3**, 1937)

Ames, Stanley R., Ph.D. Distillation Products, Inc., Div. of Eastman Kodak Co., Rochester 3, N. Y. *Sr. Research Chemist.* (**2**, 1948)

Amoss, Harold L., M.D., D.P.H., Sc.D. 68 Deerfield Drive, Greenwich, Conn. (**4**, 1922; **6**, 1917)

Andersch, Marie A., Ph.D. Univ. Hospital, Baltimore, Md. *Biochemist; Instr. in Medicine, Univ. of Maryland.* (**2**, 1940)

Andersen, Dorothy H., M.D. Babies Hospital, Broadway and 167th St., New York City. *Asst. Prof. of Pathology, Columbia Univ.* (**4,** 1935)

Anderson, Carl E., Ph.D. Univ. of North Carolina, School of Medicine, Dept. of Biological Chemistry and Nutrition, Chapel Hill. *Assoc. Prof. of Biochemistry.* (**2,** 1950)

Anderson, Evelyn, M.D. Ph.D. Natl. Insts. of Hea'th, Bethesda 14, Md. (**1,** 1934)

Anderson, Hamilton H., M.S., M.D. Pharmacology Lab., Univ. of California Med. School, San Francisco. *Prof. and Chairman of Div.; until June 1951, Office of the Dean, American University of Beirut, Lebanon.* (**3,** 1931)

Anderson, Oscar Daniel, Ph.D. Cornell Univ., Dept. of Psychology, Ithaca, N.Y. (**1,** 1939)

Anderson, Rubert S., Ph.D. Univ. of South Dakota School of Medicine, Vermillion. *Prof. of Physiology.* (**1,** 1948)

Anderson, Rudolph J., Ph.D. Sterling Lab., Yale Univ., New Haven, Conn. *Prof. of Chemistry.* (**2,** 1915)

Anderson, W. A. D., M.A., M.D. Marquette Univ. School of Medicine, Milwaukee, Wis. *Prof. of Pathology.* (**4,** 1941)

Anderson, William E., M.A. Eastern State Farmers' Exchange, Westbrook Farm, Rockville, Conn. *Biochemist.* (**2,** 1931; **5,** 1933)

Andervont, H. B., Sc.D. Natl. Cancer Inst., Bethesda, Md. *Biologist, USPHS.* (**4,** 1939)

Andrews, James C., Ph.D. Univ. of North Carolina, Chapel Hill. *Prof. of Biological Chemistry and Nutrition.* (**2,** 1925)

Andrus, E. Cowles, M.D. 24 E. Eager St., Baltimore 2, Md. *Asst. Visiting Physician; Assoc. Prof. of Medicine, Johns Hopkins Univ.* (**1,** 1925)

Anfinsen, Christian B., Jr., Ph.D. Natl. Heart Inst., Bethesda 14, Md. *Chief, Section of Cellular Physiology.* (**2,** 1946)

Angerer, Clifford, Ph.D. Ohio State Univ., Columbus. *Assoc. Prof. of Physiology.* (**1,** 1943)

Angevine, D. Murray, M.D. Univ. of Wisconsin Med. School, Madison. *Prof. of Pathology.* (**4,** 1940)

Anker, H. S., M.D., Ph.D. Univ. of Chicago, Dept. of Biochemistry, 947 E. 58th St., Chicago 37, Ill. *Research Assoc. and Asst. Prof.* (**2,** 1949)

Annegers, John H., Ph.D., M.D. Northwestern Univ. Med. School, Dept. of Physiology, 313 E. Chicago Ave., Chicago 11, Ill. *Asst. Prof. of Physiology.* (**1,** 1949)

Ansbacher, Stefan, D.Sc. P.O. Box 731, Marion, Ind. (**2,** 1939)

Anslow, W. Parker, Jr., Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Asst. Prof. of Physiology.* (**2,** 1948)

Anson, Mortimer L., Ph.D. Thomas J. Lipton, Inc., 1500 Hudson St., Hoboken, N. J. *Dir. of Chemical Research.* (**2,** 1937)

Apperly, Frank L., D.Sc., M.D. Med. College of Virginia, Richmond. *Prof. of Pathology.* (**4,** 1936)

Archibald, Reginald M., Ph.D., M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member; Physician to Hospital.* (**2,** 1947)

Arkin, Aaron, M.D., Ph.D. Suite 2006, 25 E. Washington St., Chicago, Ill. *Rush Prof. of Medicine, Univ. of Illinois; Prof. and Chairman of Dept. of Medicine, Cook County Grad. School.* (**1,** 1914; **3,** 1919)

Armstrong, Harry G., M.D. Headquarters U.S. Air Force Washington, 25, D.C. *Surgeon General.* (**1,** 1948)

Armstrong, Philip B., M.D. Syracuse Univ. College of Medicine, Syracuse 10, N.Y. *Prof. of Anatomy.* (**1,** 1945)

Armstrong, W. D., M.D., Ph.D. Univ. of Minnesota, 17 Med. Sciences Bldg., Minneapolis. *Prof. and Head of Physiological Chemistry.* (**2,** 1938)

Arnold, Aaron, Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Head of Nutritional Research Lab.* (**5,** 1947)

Arnold, Lloyd, A.M., M.D. 1538 E. 57th St., Chicago, Ill. (**4,** 1930; **6,** 1925)

Arnow, L. Earle, Ph.D., M.D. Sharp & Dohme, Med. Research Div., Glenolden, Pa. *Dir. of Research.* (**2,** 1940)

Aronson, Joseph D., M.D. Univ. of Pennsylvania, Phipps Inst., Philadelphia 4. *Prof. of Bacteriology.* (**4,** 1927; **6,** 1925)

Artom, Camillo, M.D. Wake Forest College, Bowman Gray School of Medicine, Winston-Salem, N.C. *Prof. of Biochemistry.* (**2,** 1944)

Ascham, Leah, Ph.D. Kansas State College, Manhattan. *Prof. in School of Home Economics.* (**5,** 1935)

Asenjo, Conrado F., Ph.D. School of Medicine, Univ. of Puerto Rico, San Juan 22. *Assoc. Prof. of Biochemistry and Nutrition.* (**2,** 1944)

Ashburn, Llewellyn L., M.D. U. S. Marine Hospital, Baltimore 11, Md. *Sr. Surgeon, U. S. Public Health Service.* (**4,** 1947)

Ashby, Winifred M., Ph.D. 305 10th St., N.E. Washington, D. C. *Sr. Scientist, Federal Security Agency.* (**6,** 1923)

Ashman, Richard, Ph.D. Louisiana State Univ. School of Medicine, New Orleans. *Prof. of Physiology.* (**1,** 1925)

Astwood, Edwin Bennet, M.D., Ph.D. Pratt Diagnostic Hospital, 30 Bennet St., Boston, Mass. *Research Prof. of Medicine, Tufts Med. School.* (**1,** 1939)

Atkin, Lawrence, Ph.D. The Fleischmann Labs., 810 Grand Concourse, New York City 51. *Asst. to Dir. of Research.* (**2,** 1946; **5,** 1946)

Aub, Joseph C., M.D. Massachusetts General Hospital, Fruit St., Boston 14. *Prof. of Re-*

search Medicine, Harvard Med. School. (**1,** 1919; **5,** 1933)

Austin, J. Harold, M.D. College of Physicians of Philadelphia, 19 S. 22nd St., Philadelphia 3, Pa. *Prof. Emeritus, Research Medicine, Univ. of Pennsylvania.* (**2,** 1922)

Avery, O. T., M.D., Sc.D. Hoods Hill Rd., Nashville, Tenn. *Member Emeritus, Rockefeller Inst. for Med. Research.* (**4,** 1921; **6R,** 1920)

Aviado, Domingo M., Jr., M.D. Univ. of Pennsylvania Med. School, Dept. of Pharmacology, Philadelphia. *Associate.* (**3,** 1950)

Axelrod, A. E., Ph.D. Western Pennsylvania Hospital, Pittsburgh, Pa. *Research Biochemist; Research Prof., Dept. of Chemistry, Univ. of Pittsburgh.* (**2,** 1950; **5,** 1949)

Axelrod, Bernard, Ph.D. Western Regional Research Lab., 800 Buchanan St., Albany, Calif. *Assoc. Chemist, Enzyme Research Div.* (**2,** 1948)

Axtmayer, Joseph H., Ph.D. Univ. of Puerto Rico, Rio Piedras. *Prof. of Chemistry.* (**5,** 1935)

Bach, L. M. N., Ph.D. Tulane Univ. School of Medicine, New Orleans, La. *Prof. of Physiology.* (**1,** 1948)

Bachem, Albert, Ph.D. Univ. of Illinois College of Medicine, Chicago 12. *Prof. of Biophysics.* (**1,** 1933)

Bachman, Carl, M.D. Univ. of Pennsylvania School of Medicine, 3400 Spruce St. Philadelphia 4. *Prof. and Dir. of Obstetrics and Gynecology.* (**2,** 1941)

Bachmann, George, M.D. Emory Univ. School of Medicine, Emory University, Ga. *Prof. Emeritus of Physiology.* (**1R,** 1912)

Bachrach, William H., M.D., Ph.D. Univ. of Southern California School of Medicine, Dept. of Physiology, Los Angeles 7. *Research Assoc.* (**1,** 1949)

Baer, Erich, Ph.D. Banting Inst., Banting and Best Dept. of Med. Research, 100 College St., Toronto, Ont., Canada. *Assoc. Prof.* (**2,** 1942)

Baernstein, Harry D., Ph.D. Natl. Insts. of Health, Bethesda, Md. *Sr. Biochemist.* (**2,** 1934)

Baetjer, Anna M., D.Sc. Johns Hopkins School of Hygiene and Public Health, 615 N. Wolfe St., Baltimore 5, Md. *Asst. Prof. of Environmental Medicine.* (**1,** 1929)

Baez, Silvio, M.D. 525 E. 68th St., New York City 32. *Research Assoc.* (**1,** 1950)

Bahrs, Alice M., Ph.D. 2735 Orchard St., Corvallis, Ore. (**1,** 1933)

Bailey, Cameron Vernon, C.M., M.D. New York Univ. and Hospital. 303 E. 20th St., New York City. *Clin. Prof. of Medicine.* (**2,** 1920; **5R,** 1933)

Bailey, Orville T., M.D. Harvard Univ. Med. School, 25 Shattuck St., Boston 15, Mass. *Asst. Prof. of Pathology.* (**4,** 1939)

Bailey, Percival, M.D., Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago 12, Ill. *Prof. of Neurology and Neurosurgery.* (**1,** 1941)

Baitsell, George Alfred, Ph.D. Yale Univ., Osborn Zoological Lab., 165 Prospect St., New Haven, Conn. *Prof. of Biology.* (**1,** 1915)

Baker, A. B., M.D. Univ. of Minnesota Hospital, 19 Millard Hall, Minneapolis. *Dir. and Prof. of Neurology and Neuropathology.* (**4,** 1940)

Baker, Edgar E., Ph.D. Boston Univ. School of Medicine, 80 E. Concord St., Boston 18, Mass. *Assoc. Prof. of Microbiology.* (**6,** 1950)

Baker, James A., D.V.M., Ph.D. Cornell Univ. New York State Veterinary College, Ithaca. *Prof. of Bacteriology.* (**4,** 1947)

Baker, Roger D., M.D. Med. College of Alabama, Birmingham 5. *Prof. of Pathology.* (**4,** 1939)

Baldes, Edward J., Ph.D. 427 Fifth Ave., S.W., Rochester, Minn. *Asst. Prof. of Physics, Mayo Foundation, Univ. of Minnesota Grad. School.* (**1,** 1930)

Baldwin, Francis Marsh, Ph.D. Univ. of Southern California, Los Angeles. *Prof. of Zoology and Dir. of Exper. Marine Biology.* (**1,** 1919)

Bale, William F., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. of Radiation Biology.* (**1,** 1943)

Ball, Eric G., Ph.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Prof. of Biological Chemistry.* (**2,** 1934)

Ball, Howard A., M.D. 233 A St., San Diego, Calif. *Pathologist, Paradise Valley and Palomar Memorial Hospitals.* (**4,** 1947)

Balls, Arnold Kent, Ph.D. Enzyme Research Lab., U. S. Bureau of Agricultural and Industrial Chemistry, Western Regional Research Lab., 800 Buchanan St., Albany 6, Calif. *Head Chemist.* (**2,** 1932)

Bang, Frederik B., M.D. Johns Hopkins Hospital, Baltimore, Md. *Assoc. Prof. in Medicine.* (**4,** 1947)

Banus, Mario Garcia, D.Sc. Bright Meadows, Chestertown, Md. (**1,** 1927)

Bard, Philip, Ph.D., Johns Hopkins Univ. School of Medicine, 710 N. Washington St., Baltimore, Md. *Prof. and Dir. of Dept. of Physiology.* (**1,** 1929)

Barger, A. Clifford, M.D. Harvard Med. School, Dept. of Physiology, 25 Shattuck St., Boston 15, Mass. *Associate.* (**1,** 1950)

Barker, H. A., Ph.D. Univ. of California, 304S Life Sciences Bldg., Berkeley 4. *Prof. of Plant Biochemistry.* (**2,** 1946)

Barker, S. B., Ph.D. State Univ. of Iowa College of Medicine, Iowa City. *Assoc. Prof. of Physiology.* (**1,** 1938)

Barlow, O. W., M.D., Ph.D. 3 Warwick Rd., Winchester, N. H. (**3,** 1944)

Barnes, B. O., Ph.D. Box 967, Station Hospital,

KAAF, Kingman, Ariz. *Prof. of Health Education, Univ. of Denver.* (**1,** 1932)

Barnes, LaVerne A., Ph.D. Naval Med. Research Inst., Natl. Naval Med. Center, Bethesda 14, Md. *Head, Bacteriology Facility.* (**6,** 1931)

Barnes, Richard Henry, Ph.D. Sharp & Dohme, Glenolden, Pa. *Asst. Dir. of Research.* (**2,** 1941; **5,** 1944)

Barnes, Thomas C., D.Sc. Hahnemann Med. College and Hosp. of Philadelphia, Philadelphia, Pa. *Assoc. Prof. of Pharmacology; Electroencephalographer of Hahnemann Hospital.* (**1,** 1942; **3,** 1948)

Barnum, Cyrus P., Jr., Ph.D. Univ. of Minnesota, 210 Millard Hall, Minneapolis 14. *Assoc. Prof. of Physiological Chemistry.* (**2,** 1946)

Barott, Herbert G., E.E. U. S. Dept. of Agriculture, Natl. Agricultural Research Center, Beltsville, Md. *Biophysicist, Animal Nutrition Div., Bur. of Animal Industry.* (**5R,** 1938)

Barron, Donald H., Ph.D. Yale Univ. School of Medicine, New Haven, Conn. *Assoc. Prof. of Physiology.* (**1,** 1943)

Barron, E. S. Guzman, M.D. Univ. of Chicago, Dept. of Medicine, Chicago 37, Ill. *Assoc. Prof. of Biochemistry* (**2,** 1931)

Bartlett, Paul D., Ph.D. Edsel B. Ford Inst. for Med. Research, Henry Ford Hospital, Detroit 2, Mich. *Sr. Assoc. in Biochemistry.* (**2,** 1950)

Bartley, S. Howard, Ph.D. P. O. Box 763, East Lansing, Mich. (**1,** 1935)

Bass, Allan D., M.D. Univ. of Syracuse School of Medicine, Syracuse, N. Y. *Prof. of Pharmacology.* (**3,** 1944)

Batchelder, Esther L., Ph.D. 8 Devon Rd., Silver Spring, Md. *Head of Food and Nutrition Div., Bureau of Human Nutrition and Home Economics.* (**5,** 1933)

Bateman, John B., Ph.D. Physical and Chemical Div., Camp Detrick, Frederick, Md. (**1,** 1945)

Bates, Robert W., Ph.D. E. R. Squibb and Sons, Biological Labs., New Brunswick, N. J. *Head of Endocrine Development Dept.* (**2,** 1936)

Batson, Herbert C., Ph.D. Army Med. Center, AMDR & GS, Washington, D. C. *Scientific Dir., Dept. of Biological Products.* (**6,** 1949)

Batterman, Robert C., M.D. New York Univ.-Bellevue Med. Center, 477 First Ave., New York City. *Asst. Prof. of Medicine.* (**3,** 1941)

Bauer, J. H., M.D. Rockefeller Foundation, 20 Rue de la Baume, Paris, (8e) France. (**4,** 1935)

Bauer, Walter, M.D. Massachusetts General Hospital, Boston. *Assoc. Prof. and Tutor in Medicine, Harvard Med. School.* (**1,** 1929)

Bauernfeind, J. C., Ph.D. Hoffmann-LaRoche, Inc., Nutley 10, N. J. *Chief of Applied Nutrition.* (**5,** 1947)

Bauman, Louis, M.D. Columbia Presbyterian Med. Center, 180 Fort Washington Ave. New York City 32. *Asst. Prof. of Clin. Medicine (retired), Columbia Univ.* (**2,** 1912)

Baumann, Carl A., Ph.D. Univ. of Wisconsin, Biochemistry Dept., Madison. *Prof. of Biochemistry.* (**2,** 1938; **5,** 1938)

Baumann, Emil J., Ph.D. 7 Church Lane, Scarsdale, N. Y. *Chemist, Montefiore Hospital.* (**2,** 1922)

Baumberger, J. Percy, Sc.D. Stanford Univ., Physiology Dept., Stanford Univ., Calif. *Prof. of Physiology.* (**1,** 1921)

Baxter, James H., M.D. Natl. Insts. of Health, Natl. Heart Inst., Bethesda, Md. (**3,** 1948)

Bayne-Jones, Stanhope, M.A., M.D. New York Hospital, Cornell Med. Center, 525 E. 68th St., New York City 21. *Pres., Joint Admin. Board.* (**4,** 1927; **6,** 1917)

Beach, Eliot F., Ph.D. Metropolitan Life Insurance Co., 1 Madison Ave., New York City 10. *Research Biochemist.* (**2,** 1941; **5,** 1942)

Beadle, Buell W., Ph.D. 606-A, Essex Circle, U.S.N.O.T.S., China Lake, Calif. (**2,** 1947)

Bean, John W., Ph.D., M.D. Univ. of Michigan, Ann Arbor. *Prof. of Physiology.* (**1,** 1932)

Beard, Howard H., Ph.D. Terrell's Labs. of Clin. Medicine, Med. Arts Bldg. Rm 24, Fort Worth, Tex. *Biochemist.* (**2,** 1928)

Beard, Joseph W., M.D. Duke Hospital, Durham, N. C. *Prof. of Surgery; Assoc. Prof. of Virology.* (**4,** 1938; **6,** 1940)

Beatty, Clarissa H., Ph.D. Univ. of Oregon Med. School, Portland. *Research Fellow.* (**1,** 1949)

Beazell, James Myler, Ph.D., M.D. 104 S. Michigan Ave., Chicago, Ill. *Instr. in Physiology and Pharmacology, Northwestern Univ. School of Medicine.* (**1,** 1939)

Beck, Claude S., M.D. Lakeside Hospital, Cleveland, Ohio. *Prof. of Neurosurgery, Western Reserve Univ.; Assoc. Surgeon, Lakeside Hospital.* (**4,** 1930)

Beck, Lyle V., Ph.D. 5609 Roosevelt St., Bethesda, Md. (**1,** 1941)

Becker, R. Frederick, M.S., Ph.D. Daniel Baugh Inst. of Anatomy, 307 S. 11th St., Philadelphia, Pa. (**1,** 1949)

Beckman, Harry, M.D. Marquette Univ. School of Medicine, Milwaukee, Wis. *Dir. of Dept. of Pharmacology.* (**3,** 1937)

Beecher, Henry K., M.D. Massachusetts General Hospital, Boston. *Anesthetist-in-Chief; Dorr Prof. of Research in Anesthesia, Harvard Med. School.* (**3,** 1940)

Beerstecher, Ernest, Jr., Ph.D. Univ. of Texas, Biochemical Inst., Austin. *Research Assoc.* (**2,** 1950)

Behnke, Albert R., M.S., M.D. Com. Nav. For. Ger., Force Med. Officer, APO 403, % Postmaster, N. Y. *Capt., MC, USN.* (**1,** 1946)

Behre, Jeanette Allen, Ph.D. Columbia Univ.

College of Physicians and Surgeons, Dept. of Biochemistry, 630 W. 168th St., New York City 32. *Associate.* (**2,** 1925)

Behrens, Otto K., Ph.D. Lilly Research Labs., Eli Lilly and Co., Indianapolis 6, Ind. *Head, Immuno-Chemical Research.* (**2,** 1949)

Behrmann, Vivian G., Ph.D. Wayne Univ., Detroit, Mich. *Instr., Grad. School; Res. Physiologist, Henry Ford Hospital.* (**1,** 1948)

Belding, David L., M.D. Boston Univ. School of Medicine, Boston, Mass. *Prof. Emeritus of Bacteriology and Exper. Pathology.* (**4,** 1927)

Belding, Harwood S., Ph.D. QMC Climatic Research Lab., Lawrence, Mass. *Director.* (**1,** 1945)

Belkin, Morris, Ph.D. Natl. Cancer Inst., Bethesda 14, Md. *Sr. Pharmacologist.* (**3,** 1949)

Bell, E. T., M.D. 110 Anatomy Bldg., Univ. of Minnesota, Minneapolis. *Prof. Emeritus of Pathology.* (**4,** 1931)

Bender, M. B., M.D. New York Univ. College of Medicine, New York City. *Assoc. Prof. of Neurology and Head of Lab. of Exper. Medicine.* (**1,** 1947)

Bendich, Aaron, Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 E. 68th St., New York City 21. *Assoc., Protein-Chemistry.* (**2,** 1950)

Benditt, Earl P., M.D. Univ. of Chicago Clinics, Dept. of Pathology, Chicago 37, Ill. *Asst. Prof.* (**4,** 1947)

Benedict, Francis G., Ph.D., M.D. Machiasport, Maine. (**1R,** 1904; **2R,** 1906)

Benham, Olive Ray, B.S. Connecticut State Dept. of Health, Bureau of Labs., Hartford. *Chief Serologist.* (**6,** 1944)

Bennett, A. Lawrence, Ph.D., M.D. Univ. of Nebraska College of Medicine, Omaha. *Prof. of Physiology and Pharmacology.* (**1,** 1941)

Bennett, Granville A., M.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago. *Prof. of Patholgy.* (**4,** 1931)

Bennett, Henry S., M.D. Univ. of Washington School of Medicine, Seattle. *Dept. of Anatomy.* (**1,** 1946)

Bennett, Leslie L., M.D. Univ. of California, Berkeley 4. *Asst. Prof. of Physiology.* (**1,** 1945)

Bennett, Mary Adelia, Ph.D. Lankenau Hospital Research Inst., 7701 Burholme St. Fox Chase, Philadelphia 11, Pa. *Assoc. Membership, Research Biochemis* . (**2,** 1941)

Benson, Clara C., Ph.D. 160 Dorset St., West, Port Hope, Ontario, Canada. *Prof. Emeritus of Food Chemistry, Univ. of Toronto.* (**2,** 1906)

Benton, Joseph G., Ph.D., M.D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Fellow in Medicine; Research Assoc. in Physical Medicine.* (**3,** 1949)

Benzinger, Theodore, M.D., D.Sc. Naval Med. Research Inst., Bethesda 14, Md. (**1,** 1950)

Berg, Benjamin N., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. in Pathology.* (**4,** 1928)

Berg, Clarence P., Ph.D. State Univ. of Iowa, Dept. of Biochemistry, Chemistry Bldg., Iowa City. *Prof. of Biochemistry.* (**2,** 1933; **5,** 1936)

Berg, William N., Ph.D. 225 W. 106th St., New York City. *Biochemist.* (**2,** 1906)

Bergeim, Olaf, Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago 12. *Prof. of Biochemistry.* (**1,** 1916; **2,** 1914)

Berger, F. M., M.D. 7B-2 Redfield Village, Metuchen, N. J. *Dir., Research and Development.* (**3,** 1949)

Bergmann, Werner, Ph.D. Yale Univ., Sterling Chemistry Lab., New Haven, Conn. *Prof. of Chemistry.* (**2,** 1934)

Berkson, Joseph, M.D., D.Sc. Mayo Clinic, Rochester, Minn. (**1,** 1933)

Berliner, Robert W., M.D. 229 E. 79th St., New York City 21. *Asst. Prof. of Medicine, Columbia Univ.* (**1,** 1950)

Bernard, Richard, Ph.D. Laval Univ., Dept. of Biology, Blvd. de l'Entente, Quebec, Canada. *Asst. Prof. of Physiology.* (**1,** 1947)

Bernheim, Frederick, Ph.D. Box 3109, Duke Univ. Med. School, Durham, N. C. *Prof. of Pharmacology.* (**2,** 1933; **3,** 1935)

Bernthal, Theodore G., M.S., M.D. Med. College of the State of South Carolina, Dept. of Physiology, Charleston 16. *Prof. of Physiology.* (**1,** 1932)

Berry, George Packer, M.D. Harvard Med. School, Boston 15, Mass. *Dean and Prof. of Bacteriology.* (**6,** 1934)

Berryman, George H., Ph.D., M.D. 521 Castleton Ave., Staten Island, N. Y. *USPHS Marine Hospital.* (**1,** 1949)

Bessey, Otto A., Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago 12. *Prof. and Head of Dept. of Biological Chemistry* (**2,** 1938; **5,** 1943)

Best, Charles H., M.D., D.Sc. Univ. of Toronto, Toronto, Ontario, Canada. *Dir. of Banting and Best Dept. of Med. Research and Dept. of Physiology.* (**1,** 1923; **2,** 1923)

Bethell, Frank H., M.D. 409 Lenawee Drive, Ann Arbor, Mich. *Prof. of Internal Medicine and Asst. Dir. of the Thomas Henry Simpson Memorial Inst.* (**4,** 1936)

Bethke, Roland M., Ph.D. Ohio Agricultural Exper. Station, Wooster. *In Charge of Nutritional Investigations.* (**2,** 1928; **5,** 1933)

Beutner, R., M.D., Ph.D. 5380 Magnolia St., Philadelphia 44, Pa. *Prof. of Pharmacology, Hahnemann Med. College.* (**1R,** 1924; **3,** 1924)

Beyer, Karl H., Ph.D., M.D. Sharp & Dohme, Inc. Med. Research Div., Glenolden, Pa. *Dir. of Pharmacological Research.* (**1,** 1942; **3,** 1944)

Bickford, Reginald G., M.D. Mayo Clinic, Sec-

tion on Physiology, Rochester, Minn. *Head of Lab. of Neurophysiology and Electroencephalography.* (**1,** 1949)

Bier, Otto, M.D. Instituto Biologico, Caixa Postal 119A, São Paulo, Brazil. *Head, Immunological Dept.* (**6,** 1947)

Bierman, Howard R., M.D., Univ. of California School of Medicine, San Francisco 22. *Assoc. Clin. Prof. of Exper. Oncology.* (**3,** 1950)

Bieter, Raymond N., M.D., Ph.D. Univ. of Minnesota, Minneapolis. *Prof. and Head of Dept. of Pharmacology.* (**3,** 1930)

Bills, Charles E., Ph.D. 3421 Stringtown Rd. Evansville 11, Ind. *Independent Investigator.* (**2,** 1928; **5,** 1935)

Bing, Franklin C., Ph.D. 30 W. Washington St., Chicago, Ill. *Consultant.* (**2,** 1931; **5,** 1934)

Bing, Richard J., M.D. Johns Hopkins Hospital, Dept. of Surgery, Baltimore 5, Md. *Assoc. Prof. of Medicine and Surgery.* (**1,** 1942)

Binkley, Francis, Ph.D. Univ. of Utah School of Medicine, Salt Lake City. *Assoc. Prof. of Pathology.* (**2,** 1947)

Binkley, Stephen Bennett, Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago. *Assoc. Prof. of Biochemistry.* (**2,** 1941)

Bird, Herbert R., Ph.D. Bureau of Animal Industry, Agricultural Research Center, Beltsville, Md. *Sr. Biochemist.* (**5,** 1947)

Bird, Orson D., Ph.D. Parke, Davis and Co., Research Labs., Detroit 32, Mich. *Research Biochemist.* (**2,** 1947)

Bird, Robert M., M.D. 214 E. 70th St., New York City 21. *Instr. in Medicine, Cornell Univ. Med. College; Physician to Out Patients, New York Hospital.* (**1,** 1950)

Birren, James E., Ph.D. 4006 Fordleigh Rd., Baltimore 15, Md. *Psychologist, Natl. Heart Inst., USPHS.* (**1,** 1950)

Bisbey, Bertha, Ph.D. Univ. of Missouri, Gwynn Hall, Columbia. *Prof. of Nutrition.* (**5,** 1933)

Bischoff, Fritz E., Ph.D. Cottage Hospital, Santa Barbara, Calif. *Dir. of Research.* (**2,** 1928; **5,** 1933)

Bishop, George H., Ph.D. Washington Univ. Med. School, Euclid and Kingshighway, St. Louis, Mo. *Prof. of Biophysics.* (**1,** 1923)

Biskind, Gerson R., M.D. 450 Sutter St., San Francisco, Calif. *Pathologist, Mt. Zion Hospital; Clin. Instr. in Pathology, Univ. of California Med. School.* (**4,** 1944)

Black, Alex, Ph.D. Pennsylvania State College, Dept. of Animal Nutrition, State College. *Prof. of Animal Nutrition.* (**5,** 1947)

Black, Edgar C., Ph.D. Univ. of British Columbia, Dept. of Physiology, Vancouver, B. C., Canada. (**1,** 1943)

Black, Simon, Ph.D. Univ. of Chicago, Chicago 37, Ill. *Asst. Prof. of Biochemistry, Dept. of Medicine.* (**2,** 1948)

Blair, Edgar A., Ph.D. Med. Field Service School, Fort Sam Houston, Tex. *Lt. Col.* (**1,** 1936)

Blair, Henry A., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. of Physiology and Dir. of Dept. of Radiation Biology* (**1,** 1934)

Blake, Francis G., M.D., Sc.D. Yale Univ. School of Medicine, New Haven, Conn. *Sterling Prof. of Medicine.* (**4,** prior to 1920; **6,** 1921)

Blake, William D., M.D. Yale Univ. School of Medicine, Lab. of Physiology, New Haven, Conn. *Instructor.* (**1,** 1950)

Blanchard, Ernest W., Ph.D. Schieffelin and Co., 30 Cooper Sq., New York City 3. *Dir. of Research.* (**1,** 1946)

Blankenhorn, M. A., M.D. Univ. of Cincinnati, Cincinnati, Ohio. *Prof. of Medicine.* (**4,** 1932)

Blatherwick, Norman R., Ph.D. Metropolitan Life Insurance Co., 1 Madison Ave., New York City. *Dir. of Biochemical Lab.* (**1,** 1915; **2,** 1915; **5,** 1934)

Blau, Nathan F., Ph.D. Veterans Admin. Hospital, 401 S. Holyoke Ave., Wichita 8, Kan. *Research Biochemist.* (**2,** 1928)

Blish, Morris J., Ph.D. Internatl. Minerals and Chemical Corp., Box G, Rossford, Ohio. *Research Dir.* (**2,** 1944)

Bliss, Alfred, Ph.D. Tufts College Med. School, Boston, Mass. *Assoc. Prof. of Physiology.* (**1,** 1947)

Bliss, Chester Ittner, Ph.D. Conn. Agricultural Exper. Station, P. O. Box 1106, New Haven. *Biometrician; Lecturer in Biometry, Yale Univ.* (**3,** 1944

Bliss, Eleanor A., Sc.D. Johns Hopkins Hospital, Dept. of Preventive Medicine, 615 N. Wolfe St., Baltimore, Md. *Assoc. in Preventive Medicine, Johns Hopkins Univ. School of Medicine.* (**6,** 1931)

Bloch, Konrad, Ph.D. Univ. of Chicago, Dept. of Biochemistry, Chicago 37, Ill. *Professor.* (**2,** 1944)

Block, Richard J., Ph.D. 15 Cooper Rd., Scarsdale, N. Y. *Dir. Of Research, C. M. Armstrong Co.; Assoc. Dept. of Physiology and Biochemistry, New York Med. College, Flower and Fifth Ave. Hospital.* (**2,** 1934; **5,** 1933)

Block, Walter D., Ph.D. 813 E. McCreight Ave., Springfield, Ohio, (**2,** 1942)

Blood, Frank R., Ph.D. Vanderbilt Univ., Dept. of Biochemistry, Nashville 4, Tenn. *Professor.* (**1,** 1950)

Bloom, William, M.D. 1419 E. 56th St., Chicago, Ill. *Prof. of Anatomy, Univ. of Chicago.* (**4,** 1930)

Bloomfield, A. L., M.D. Stanford Univ. Hospital, San Francisco, Calif. *Prof. of Medicine.* (**3,** 1927; **4,** 1927)

Bloor, W. R., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Prof. of Biochemistry.* (**1R,** 1915; **2,** 1910)

Blum, Harold F., Ph.D. Princeton Univ., Dept. of Biology, Princeton, N. J. *Physiologist, Natl. Cancer Inst., and Visiting Lecturer.* (**1,** 1928)

Blumberg, Harold, Sc.D. Endo Products, Inc., 84–40 101st St., Richmond Hill 18, N. Y. *Head of Biological Labs.* (**5,** 1942)

Blumenstock, Julius, M.D. Veterans Admin. Hospital, Sheridan, Wyo. (**1,** 1925)

Blumgart, Herrmann L., M.D. Beth Israel Hospital, 330 Brookline Ave., Boston, Mass. *Physician-in-Chief; Prof. of Medicine, Harvard Med. School.* (**1,** 1927)

Blunt, Katharine, Ph.D. 38 Glenwood Ave., New London, Conn. *Pres. Emeritus, Connecticut College for Women.* (**2,** 1921)

Bobb, J. Richard R., M.D. Temple Univ. Med. School., Dept. of Pharmacology, Philadelphia, Pa. *Asst. Prof.* (**1,** 1949)

Bock, Joseph C., Ph.D. 2324 N. 46th St., Milwaukee 10, Wis. *Prof. Emeritus of Biochemistry, Marquette Univ. Med. School; Biochemist, Milwaukee County Hospital* (**2,** 1916)

Bodansky, Aaron, Ph.D. Hospital for Joint Diseases, 1919 Madison Ave., New York City. *Biological Chemist.* (**2,** 1926)

Bodansky, Oscar, Ph.D., M.D. Memorial Hospital Cancer Center, 444 E. 68th St., New York City 21. *Chief, Clin. Biochemistry; Assoc. Prof. of Clin. Pharmacology, Cornell Med. College.* (**2,** 1937; **3,** 1942)

Bodian, David, Ph.D., M.D. Johns Hopkins Univ., 1901 E. Madison St., Baltimore, Md. *Assoc. Prof. of Epidemiology.* (**6,** 1949)

Bodine, Joseph Hall, Ph.D. State Univ. of Iowa, Iowa City. *Prof. and Head of Dept. of Zoloogy.* (**1,** 1925)

Boell, Edgar J., Ph.D. Yale Univ., Osborn Zoological Lab., New Haven, Conn. *Ross G. Harrison Prof. of Exper. Zoology.* (**1,** 1942)

Boettiger, Edward G., Ph.D. Univ. of Connecticut, Box U-42, Storrs. *Asst. Prof. of Zoology.* (**1,** 1950)

Boger, William P., M.D. Univ. of Pennsylvania Hospital, Rm. 715, Pepper Lab., Philadelphia. *Instr. in Medicine.* (**3,** 1948)

Bogert, L. Jean, Ph.D. Hotel Claremont, Berkeley, Calif. (**2,** 1917)

Bogert, Marston Taylor, Sc.D. 1158 Fifth Ave., New York City 29. *Prof. Emeritus of Organic Chemistry, Columbia Univ.; Scientific Consultant to Evans Research and Development Corp.* (**2,** 1925)

Bohr, David F., M.D. Univ. of Michigan, Physiology Lab., Ann Arbor. *Assoc. Prof.* (**1,** 1949)

Bolliger, Adolph, Ph.D. Univ. of Sydney, Gordon Craig Research Lab., Sydney, Australia. *Dir. of Research.* (**2,** 1928)

Bollman, J. L., M.D. Mayo Clinic, Rochester, Minn. *Chairman of Div. of Exper. Medicine; Prof. of Physiology, Mayo Foundation.* (**4,** 1927)

Bond, Glenn C., Ph.D., M.D. The Upjohn Co., Research Lab., Kalamazoo, Mich. *Asst. Dept. Head of Bacteriology Research.* (**6,** 1939)

Bondi, Amedeo. Hahnemann Med. College, Philadelphia, Pa. *Prof. and Head of Dept. of Bacteriology.* (**6,** 1948)

Bonner, David M., Ph.D. Yale Univ., Osborn Botanical Lab., New Haven, Conn. *Assoc. Prof. and Research Assoc.* (**2,** 1948)

Bonnycastle, Desmond D., M.D., Ph.D. Yale Univ. School of Medicine, New Haven, Conn. *Asst. Prof. of Pharmacology.* (**3,** 1947)

Bonsnes, Roy W., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Assoc. Prof. of Biochemistry in Obstetrics.* (**2,** 1947)

Booher, Lela E., Ph.D. General Mills, Inc., 1081 21st Ave., S.E., Minneapolis, Minn. *Chief Nutritionist and Dir. of Nutrition Lab.* (**2,** 1933; **5,** 1933)

Booker, Walter M., Ph.D. Howard Univ. School of Medicine, Washington, D. C. *Assoc. Prof. of Pharmacology.* (**1,** 1948; **3,** 1948)

Boor, Alden K., Ph.D. Camp Detrick, Basic Science Div., Frederick, Md. (**2,** 1931)

Boothby, Walter M., M.A., M.D. Univ. of Malaya, Dept. of Physiology, Singapore. *Visiting Prof., Chief Emeritus, Clin. Metabolism Sect., Mayo Clinic.* (**1R,** 1915; **2,** 1920; **3R,** 1923; **4R,** 1924)

Bordley, James, III, M.D. Mary Imogene Bassett Hospital, Cooperstown, N. Y. (**1,** 1938)

Borek, Ernest, Ph.D. College of the City of New York, Convent Ave. and 140th St., New York City. *Asst. Prof.; Research Assoc. in Biochemistry, Columbia Univ.* (**2,** 1947)

Borison, Herbert Leon, M.S., Ph.D. Univ. of Utah, College of Medicine, Dept. of Pharmacology, Salt Lake City. *Instructor.* (**1,** 1950)

Boroff, Daniel A., M.A., M.S. % L. J. Kuhne, 502 Rugby Rd., Brooklyn, N. Y. (**6,** 1947)

Borsook, Henry, M.D., Ph.D. California Inst. of Technology, Pasadena 4. *Prof. of Biochemistry.* (**2,** 1931)

Bosshardt, David K., Ph.D. Sharp & Dohme, Med. Research Div., Glenolden, Pa. *Research Biochemist.* (**5,** 1947)

Bostick, Warren L., M.D. Univ. of California Med. School, Dept. of Pathology, San Francisco 22. *Asst. Prof.* (**4,** 1949)

Bosworth, Alfred Willson, A.M., M.D. R.F.D. 4, Circleville, Ohio. *Consulting Chemist.* (**2,** 1936; **5R,** 1935)

Bott, Phyllis A., Ph.D. Woman's Med. College of Pennsylvania, Henry Ave. and Abbotsford Rd.,

Philadelphia. *Prof. and Chairman of Dept. of Physiological Chemistry.* (**2,** 1938)

Boucher, Robert V., Ph.D. 303 Frear Labs., State College, Pa. *Prof. of Agricultural and Biological Chemistry.* (**5,** 1945)

Bouman, H. D., M.D. Univ. of Wisconsin Med. School, Madison. *Prof. of Physical Medicine.* (**1,** 1943)

Bourne, Wesley, M.D., M.Sc. McGill Univ., Montreal, Quebec, Canada. *Prof. and Chairman, Dept. of Anesthesiology.* (**3,** 1936)

Bourque, Joseph E., M.D., Ph.D. Univ. of Illinois College of Medicine, Dept. of Physiology, 1853 W. Polk St., Chicago 12. *Asst. Prof.* (**1,** 1949)

Bourquin, Helen, Ph.D. 1331 N. Tejon St., Colorado Springs, Colo. (1, 1925)

Bowen, William J., Ph.D. USPHS, Inst. of Exper. Biology & Medicine, Bethesda 14, Md. *Sr. Asst. Scientist.* (**1,** 1948)

Bowman, Donald E., Ph.D. 6956 Warwick Rd., Indianapolis, Ind. *Assoc. Frof. of Biochemistry, Indiana Univ. School of Medicine.* (**2,** 1944)

Bowman, Katherine L., B.A. 20 Plaza St., Brooklyn 17, N. Y. *Research Fellow in Allergy, Jewish Hospital, Brooklyn.* (**6,** 1946)

Boxer, George E., Ph.D. 318 Temple Pl., Westfield, N. J. *Sr. Chemist, Research and Development Div., Merck & Co., Inc.* (**2,** 1946)

Boyd, Eldon M., M.A., M.D. Queen's Univ., Kingston, Ontario, Canada. *Prof. and Head of Dept. of Pharmacology.* (**3,** 1941)

Boyd, Linn J., M.D. New York Med. College and Flower & Fifth Ave. Hospitals, 1 E. 105th St., New York City 29. *Prof. of Pharmacology; Dir. of Medicine.* (**3,** 1950)

Boyd, M. John, Ph.D. Hahnemann Med. College, 235 N. 15th St., Philadelphia 2, Pa. *Prof. of Biol. Chemistry.* (**2,** 1947)

Boyd, T. E., Ph.D. 9 Walworth Ave., Scarsdale, N. Y. *Assoc. Dir. of Research, Natl. Found. for Infantile Paralysis, 120 Broadway, New York City 5.* (**1,** 1924)

Boyd, William C., Ph.D. U. S. Naval Med. Research Unit #3, % American Embassy, Cairo, Egypt. (**6,** 1933)

Boyden, Allan A. Rutgers Univ., New Brunswick, N. J. *Prof. of Zoology.* (**6,** 1948)

Boyden, Edward A., Ph.D. Univ. of Minnesota, Minneapolis 14. *Prof. and Chairman of Dept. of Anatomy.* (**1,** 1929)

Boyer, Paul D., Ph.D. Univ. of Minnesota College of Agriculture, Div. of Biochemistry, St. Paul 1. *Assoc. Prof.* (**2,** 1944)

Boyle, Paul E., D.M.D. Univ. of Pennsylvania School of Dentistry, 40th and Spruce Sts., Philadelphia 4. *Prof. of Oral Pathology.* (**4,** 1939)

Bozicevich, John, M.A. USPHS, Natl. Insts. of Health, Bethesda, Md. *Head, Subsection of Immunology, Trop. Diseases Div.* (**6,** 1948)

Bozler, Emil, Ph.D. Ohio State Univ., Columbus. *Prof. of Physiology.* (**1,** 1932)

Bradbury, James T., Sc.D. Univ. of Louisville School of Medicine, 101 W. Chestnut St., Louisville 2, Ky. (**1,** 1941)

Bradley, Harold C., Ph.D. 2639 Durant Ave., Berkeley, Calif. (**1,** 1911; **2,** 1908)

Bradley, Stanley E., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Medicine.* (**1,** 1947)

Bradley, William B., Ph.D. American Inst. of Baking, 1046 Elmwood Ave., Wilmette, Ill. *Dir. of Labs.* (**1,** 1939)

Bragdon, Joseph Henry, M.D. Natl. Insts. of Health, Exper. Biology and Medicine Inst., Pathology Lab., Bethesda 14, Md. *Surgeon (R) USPHS.* (**4,** 1950)

Branch, E. Arnold G., M.D. Lancaster Hospital, St. John, New Brunswick, Canada. *Dir. of Labs.* (**4,** 1929)

Brand, Erwin, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Biological Chemistry.* (**2,** 1929)

Brandes, W. W., M.D. Roosevelt Hospital, W. 59th St., New York City. (**4,** 1931)

Branham, Sara E., Ph.D., M.D., Natl. Insts. of Health, Bethesda, Md. *Sr. Bacteriologist.* (**6,** 1926)

Branion, Hugh Douglas, Ph.D. Ontario Agricultural College, Guelph, Canada. *Prof. and Head of Dept. of Animal Nutrition.* (**5,** 1933)

Brassfield, Charles R., Ph.D. Univ. of Michigan, Ann Arbor. *Assoc. Prof. of Physiology.* (**1,** 1937)

Bratton, Andrew Calvin, Jr., M.D., Ph.D. Parke, Davis and Co., Research Labs., Detroit 32, Mich. *Dir. of Pharmacological Research.* (**3,** 1941)

Brauer, Ralph W., Ph.D. Louisiana State Univ. School of Medicine, New Orleans. *Asst. Prof. of Pharmacology.* (**3,** 1948)

Braun, Herbert A., Ph.D. Fed. Security Agency, Food and Drug Admin., Washington, D. C. *Pharmacologist.* (**3,** 1941)

Brazier, Mary A. B., Ph.D. Massachusetts General Hospital, Electroencephalographic Lab., Boston 14. *Research Assoc. in Neuropathology, Harvard Med. School.* (**1,** 1947)

Brecher, George, M.D. Natl. Insts. of Health, Pathology and Pharmacology Lab., Bethesda 14, Md. (**4,** 1949)

Brecher, Gerhard A., M.D., Ph.D. Western Reserve Univ. Med. School, Dept. of Physiology, Cleveland 6, Ohio. *Sr. Instructor.* (**1,** 1949)

Breedis, Charles, M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Instr. in Pathology.* (**4,** 1948)

Brewer, Carl R., Ph.D. Camp Detrick, Frederick, Md. *Chief, Bacterial Nutrition Branch, Biological Div., Chemical Corps.* (**2,** 1948)

Brewer, John H., Ph.D. Hynson Westcott and Dunning, Baltimore, Md. *Dir. of Biological Research.* (**6,** 1948)

Brewer, Nathan R., Ph.D. Univ. of Chicago, Chicago, Ill. *Lecturer in Physiology.* (**1,** 1948)

Bridge, Edward M., M.D. Univ. of Buffalo School of Medicine, 24 High St., Buffalo 9, N. Y. *Prof. of Pharmacology.* (**2,** 1940)

Briggs, A. P., M.D. Univ. of Georgia Med. College, Augusta. *Prof. of Biochemistry.* (**2,** 1923)

Briggs, David R., Ph.D. Univ. of Minnesota, Div. of Agricultural Biochemistry, Univ. Farm, St. Paul 8. *Prof. of Agricultural Biochemistry; Chemist, Minn. Agricultural Exper. Station.* (**2,** 1946)

Briggs, George M., Ph.D. Univ. of Minnesota, Univ. Farm, St. Paul. *Asst. Prof. of Poultry Nutrition.* (**5,** 1947)

Brink, Frank Jr., Ph.D. Johns Hopkins Univ., Biological Labs., Baltimore 18, Md. (**1,** 1942)

Brinkhous, K. M., M.D. Univ. of North Carolina School of Medicine, Dept. of Pathology, Chapel Hill. *Prof. of Pathology.* (**4,** 1939)

Britton, Sydney W., M.D. Univ. of Virginia School of Medicine, Charlottesville. *Prof. of Physiology.* (**1,** 1925)

Brobeck, John R., M.D., Ph.D. Yale Univ. School of Medicine, New Haven, Conn. *Asst. Prof. of Physiology.* (**1,** 1943)

Brodie, Bernard B., Ph.D. Natl. Insts. of Health, Natl. Heart Inst., Bethesda 14, Md. *Chief, Section on Chemical Pharmacology.* (**2,** 1940; **3,** 1945)

Brody, Samuel, Ph.D. Univ. of Missouri College of Agriculture and Agricultural Experiment Station, Dairy Building, Columbia. *Prof. of Dairy Husbandry.* (**2,** 1929; **5,** 1933)

Broh-Kahn, Robert H., M.D. Bristol Labs., Inc., P. O. Box 657, Syracuse, N. Y. (**1,** 1948)

Bromiley, Reginald B., Ph.D. Johns Hopkins School of Medicine, Dept. of Physiology, 710 N. Washington St., Baltimore 5, Md. *Prof. of Physiology.* (**1,** 1949)

Bronfenbrenner, J. J., Ph.D., D.P.H. Washington Univ. School of Medicine, St. Louis, Mo. *Prof. of Bacteriology and Immunology.* (**4,** 1940; **6,** 1918)

Bronk, Detlev W., Ph.D., Sc.D. Johns Hopkins Univ., Baltimore, Md. *Pres.; Chairman of Natl. Research Council.* (**1,** 1927)

Brookes, Margaret C. Hessler, Ph.D. Univ. of Chicago, Chicago, Ill. *Asst. Prof., Dept. of Home Economics.* (**5,** 1935)

Brookhart, John M., Ph.D. Univ. of Oregon School of Medicine, Dept. of Physiology, Portland. *Assoc. Prof.* (**1,** 1946)

Brooks, Chandler McCuskey, Ph.D. State Univ. of New York Med. Center at New York, College of Medicine, 350 Henry St., Brooklyn 2. *Prof. of Physiology and Pharmacology; Exec. Officer of Dept.* (**1,** 1934; **3,** 1950)

Brooks, Clyde, Ph.D., M.D. Univ. Clinic, 2506 Ponce de Leon Blvd., Coral Gables, Fla. *Internal Medicine.* (**1,** 1910; **3,** 1912)

Brooks, Matilda Moldenhauer, Ph.D. Univ. of California, Dept. of Physiology, Berkeley. *Research Assoc. in Biology.* (**1,** 1923)

Broun, Goronwy Owen, M.D. 1325 S. Grand Blvd., St. Louis, Mo. *Prof. of Internal Medicine, St. Louis Univ.* (**4,** 1927)

Brown, Claude P., M.D. 1930 Chestnut St., Philadelphia, Pa. *Practicing Clin. Pathologist.* (**6,** 1913)

Brown, Dugald E. S., Ph.D. Bermuda Biological Station, St. George's W., Bermuda. (**1,** 1932)

Brown, Edgar D., Pharm. D., M.D. Paynesville, Minn. *Retired.* (**1R,** 1907; **3R,** 1909)

Brown, Ernest B., Jr., M.S., Ph.D. Univ. of Minnesota, Dept. of Physiology, Minneapolis. *Asst. Prof.* (**1,** 1950)

Brown, Ethan Allen, L.R.C.P. (Eng.), A.R.C.S. (London), 75 Bay State Rd., Boston, Mass. *Lecturer in Medicine, Tufts College Med. School; Physician-in-Chief, Allergy Clinic, Boston Dispensary.* (**6,** 1946)

Brown, Frank A., Jr., Ph.D. Northwestern Univ., Zoological Labs., Evanston, Ill. *Assoc. Prof. of Zoology.* (**1,** 1940)

Brown, George B., Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 E. 68th St., New York City 21. *Member; Assoc. Prof. of Biochemistry, Cornell Univ. Med. College.* (**2,** 1947)

Brown, Gordon Campbell, Sc.D. School of Public Health, Ann Arbor, Mich. *Assoc. Prof. of Epidemiology.* (**6,** 1949)

Brown, John B., Ph.D. Ohio State Univ., Columbus. *Prof. of Physiological Chemistry.* (**2,** 1927; **5,** 1934)

Brown, R. A., Ph.D. Parke Davis and Co., Research Labs., Detroit 32, Mich. *Head of Div. of Nutritional Research.* (**5,** 1946)

Brown, Rachel, Ph.D. 26 Buckingham Drive, Albany, N. Y. *Sr. Biochemist, Div. of Labs. and Research, N. Y. State Dept. of Health.* (**6,** 1933)

Brown, Robert V., Ph.D. Univ. of Tennessee, Dept. of Pharmacology, Memphis 3. *Assoc. Prof.* (**1,** 1945; **3,** 1950)

Browne, J. S. L., M.D., Ph.D. Royal Victoria Hospital, Univ. Clinic, Montreal, Que., Canada. *Asst. Prof. of Medicine, McGill Univ.* (**1,** 1934)

Brownell, Katharine A., Ph.D. Ohio State Univ., Dept. of Physiology, Columbus. *Research Assoc.* (**1,** 1943)

Brozek, Josef, Ph.D. Univ. of Minnesota, Stadium South Tower, Minneapolis 14. *Assoc. Prof., Lab. of Physiological Hygiene, School of Public Health.* (**1,** 1947)

Brues, Austin M., M.D. Argonne National Labs., P.O. Box 5207, Chicago, Ill. *Dir. of Biology Div.; Assoc. Prof. of Medicine and Instr. of Radiobiology and Biophysics, Univ. of Chicago.* (**1,** 1940)

Bruesch, S. R., M.D., Ph.D. Univ. of Tennessee, Div. of Anatomy, Memphis 3. *Prof. of Anatomy.* (**1,** 1949)

Bruger, Maurice, M.D., M.Sc. 301 E. 20th St., New York City 3. *Assoc. Prof. of Medicine, New York Univ. Post-Grad. Med. School; Chief, Div. of Pathological Chemistry, New York University Hospital.* (**2,** 1935; **5,** 1935)

Bruhn, John M., Ph.D. Med. College of Alabama, Dept. of Physiology, 620 S. 20th St., Birmingham 5. *Prof. of Physiology and Pharmacology.* (**1,** 1939)

Bruner, Harry Davis, M.D., Ph.D. Med. Div. ORINS, Box 117, Oak Ridge, Tenn. *Principal Scientist.* (**3,** 1945)

Brunschwig, Alexander, M.D. Cornell Univ. Med. College, New York City. *Prof. of Clin. Surgery; Attending Surgeon, Memorial Hosp.* (**4,** 1937)

Bryan, W. Ray, Ph.D. 4405 Bywood Lane, Bethesda, Md. *Principal Biologist, Natl. Cancer Inst.* (**1,** 1934; **4,** 1940)

Buchanan, J. William, Ph.D. Univ. of Southern California, Alan Hancock Foundation, Los Angeles. *Prof. of Zoology.* (**1,** 1927)

Buchanan, John M., Ph.D. Univ. of Pennsylvania School of Medicine, Dept. of Physiological Chemistry, Philadelphia. *Assoc. Prof.* (**2,** 1949)

Buchbinder, Lean, Ph.D. Dept. of Health, 125 Worth St., New York City. *Sr. Bacteriologist in charge of Lab.* (**6,** 1934)

Buchbinder, William C., M.D. 104 S. Michigan Ave., Chicago, Ill. *Asst. Prof. of Medicine, Northwestern Univ. Med. School; Assoc. in Medicine, Michael Reese Hospital.* (**1,** 1940)

Bucher, Gladys R., Ph.D. Univ. of Illinois, Dept. of Biology, Chicago Div., Navy Pier, Chicago 12. (**1,** 1946)

Buckner, G. Davis, Ph.D. Kentucky Agricultural Exper. Station, Lexington. *In charge of Animal Nutrition.* (**2,** 1920)

Bucy, Paul C., M.D. 4833 S. Woodlawn Ave., Chicago, Ill. *Prof. of Neurology and Neurological Surgery, Univ. of Illinois.* (**1,** 1933)

Buddingh, G. John, M.D. Louisiana State Univ. School of Medicine, New Orleans. *Prof. of Microbiology.* (**4,** 1940)

Bueding, Ernest, M.D. Western Reserve Univ. School of Medicine, Dept. of Pharmacology, Cleveland 6, Ohio. *Assoc. Prof.* (**2,** 1946; **3,** 1949)

Buell, Mary V., Ph.D. Washington Univ. School of Medicine, Euclid Ave. and Kingshighway, St. Louis 10, Mo. *Research Asst., Dept. of Biological Chemistry.* (**2,** 1921)

Bugher, John C., M.D. The Rockefeller Foundation, 49 W. 49th St., New York City 21. *Member, Internatl. Health Div.* (**4,** 1935)

Bukantz, Samuel C., M.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Research Asst. in Medicine.* (**6,** 1943)

Bulatao, Emilio, M.D. Univ. of the Philippines, Manila, P. I. *Prof. of Physiology and Biochemistry.* (**1,** 1924)

Bull, Henry B., Ph.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago 11, Ill. *Prof. of Chemistry.* (**2,** 1937)

Bullock, Theodore H., Ph.D. Univ. of California, Los Angeles. *Assoc. Prof. of Zoology.* (**1,** 1948)

Bunde, Carl A., M.D., Ph.D. Pitman-Moore Co., Indianapolis 6, Ind. *Research Dir.* (**1,** 1943)

Bunney, William Edward, Ph.D. E. R. Squibb and Sons, New Brunswick, N. J. *Vice Pres.; Dir. of Manufacturing Labs.* (**6,** 1931)

Bunting, Charles H., M.D. 139 Armory St., Hamden, Conn. *Prof. Emeritus of Pathology, Univ. of Wisconsin; Lecturer in Pathology, Yale Med. School.* (**4,** 1913)

Bunzell, H. H., Ph.D. Box 44, General Post Office, New York City 1. *Dir. of Bunzell Labs.* (**2,** 1908)

Burchell, Howard B., M.D., Ph.D. 1506 Durand Court, Rochester, Minn. *Instr. in Medicine, Mayo Foundation; Consultant in Medicine, Mayo Clinic.* (**1,** 1942)

Burdick, H. O., Sc.D. Alfred Univ., Alfred, N. Y. *Prof. of Biology.* (**1,** 1940)

Burdon, Kenneth L., Ph.D. Baylor Univ. College of Medicine, Houston, Tex. *Prof. of Bacteriology; Consultant, USPHS.* (**6,** 1936)

Burgen, A. S. V., M.B., MRCP. McGill Univ., Dept. of Physiology, Montreal, Quebec, Canada. *Professor.* (**1,** 1950; **3,** 1950)

Burk, Dean, Ph.D. Natl. Cancer Inst., Bethesda, Md. *Principal Biochemist, USPHS.* (**2,** 1939)

Burns, Edward L., M.D. Mercy Hospital, Toledo, Ohio. *Pathologist.* (**4,** 1939)

Burr, George O., Ph.D. Exper. Station. H.S.P.A., Honolulu, Hawaii. *Head of Dept. of Biochemistry and Physiology.* (**2,** 1928; **5,** 1933)

Burris, Robert H., Ph.D. Univ. of Wisconsin, Dept. of Biochemistry, Madison 6. *Prof. of Biochemistry.* (**2,** 1946)

Burrows, William, Ph.D. Univ. of Chicago, Dept. of Bacteriology and Parasitology, Chicago 37, Ill. *Prof. of Bacteriology.* (**6,** 1947)

Burton, Alan C., Ph.D. Univ. of Western Ontario, Dept. of Med. Research, London, Ontario, Canada. *Asst. Prof.* (**1,** 1937)

Burton-Opitz, Russell, M.D., Ph.D. 218 Bridle Way, Palisade, N. J. *Attending Cardiologist, Lenox Hill Hospital; Attending Physician, Cumberland Hospital.* (**1R,** 1902; **2,** 1906; **3R,** 1919)

Buschke, William H., M.D. Manhattan Eye, Ear and Throat Hospital, 210 E. 64th St., New York

City 21. *Research Ophthalmologist; Head of Ayer Foundation Ophthalmic Research Lab.* (**1,** 1947)

Bush, Milton T., Ph.D. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Assoc. Prof. of Pharmacology.* (**3,** 1938)

Butler, G. C., Ph.D. Univ. of Toronto, Dept. of Biochemistry, Toronto, Ont., Canada. *Assoc. Prof.* (**2,** 1949)

Butler, Thomas C., M.D. Univ. of North Carolina School of Med., Chapel Hill. *Prof. of Pharmacology.* (**3,** 1938)

Butt, Hugh R., M.D. Mayo Clinic, 102 Second Ave., S.W., Rochester, Minn. *Consultant in Medicine; Asst. Prof. of Medicine, Mayo Foundation.* (**5,** 1942)

Butts, Joseph S., Ph.D. Oregon State College, Corvallis. *Prof. of Biochemistry and Head of Agricultural Chemistry.* (**2,** 1936; **5,** 1936)

Byers, Sanford O., Ph.D. 2200 Post St., San Francisco 15, Calif. *Research Biochemist, Harold Brunn Inst. for Cardiovascular Research, Mount Zion Hospital.* (**1,** 1949)

Cahen, Raymond L., Ph.D., M.D. Maltbie Chemical Co., Research Labs., P.O. Box 270, Morristown, N. J. *Dir. of Pharmacological Research.* (**3,** 1949)

Cahill, William M., Ph.D., M.D. 3320 Baldwin St., Los Angeles 31, Calif. (**2,** 1940)

Cajori, Florian A., Ph.D. Univ. of Colorado Med. School, Denver 7. *Asst. Prof. of Biochemistry.* (**2,** 1922; **5,** 1933)

Caldwell, Mary L., Ph.D. Columbia Univ., New York City. *Prof. of Chemistry.* (**2,** 1924; **5,** 1933)

Callison, Elizabeth C., M.S. U. S. Dept. of Agriculture, Agricultural Research Station, Food and Nutrition Div., Bureau of Human Nutrition, Beltsville Md. *Nutrition Physiologist.* (**5,** 1949)

Calloway, Nathaniel Oglesby, Ph.D., M.D. Univ. of Illinois College of Medicine, 1819 W. Polk St., Chicago 12. *Asst. in Medicine.* (**3,** 1945)

Calvin, D. Bailey, Ph.D. Univ. of Texas Med. Branch, Galveston. *Prof. of Biological Chemistry and Dean of Student and Curricular Affairs.* (**1,** 1934; **2,** 1939)

Calvin, Melvin, Ph.D. Univ. of California, Berkeley 4. *Prof. of Chemistry.* (**2,** 1949)

Caminopetros, John, M.D. Hellenic Pasteur Inst., 103 Queen Sophie Ave., Athens, Greece. *Chief of the Service of Exper. Medicine.* (**6,** 1946)

Camp, Walter J. R., M.D., Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago, Ill. *Prof. of Pharmacology and Toxicology; State Toxicologist.* (**3,** 1926)

Campbell, Berry, Ph.D. Univ. of Minnesota, Minneapolis 14. *Assoc. Prof. of Anatomy.* (**1,** 1945)

Campbell, Dan H., Ph.D. California Inst. of Technology, Pasadena. *Assoc. Prof. of Chemistry.* (**6,** 1938)

Campbell, H. Louise, Ph.D. 900 Windsor Ave., Windsor, Conn. (**5R,** 1933)

Campbell, J. Alexander, Ph.D. Dept. of Natl. Health and Welfare, Food and Drug Div., Ottawa, Ont., Canada. *Chief, Vitamin and Nutrition Lab.* (**5,** 1950)

Campbell, James, Ph.D. Univ. of Toronto, Toronto, Ont., Canada. *Assoc. Prof. of Physiology; Lt. Comdr., (S.B.) R.C.N.V.R.* (**1,** 1943)

Campbell, Walter Ruggles, M.D. Univ. of Toronto, 69 Madison Ave., Toronto, Ont., Canada. *Assoc. Prof. of Medicine.* (**2,** 1922)

Cannan, R. Keith, D.Sc. New York Univ. College of Medicine, 477 First Ave., New York City. *Prof. of Chemistry.* (**2,** 1931)

Cannon, Paul R., M.D., Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Pathology.* (**4,** 1930; **6,** 1929)

Cantarow, Abraham, M.D. Jefferson Med. College, Philadelphia 7, Pa. *Prof. of Biochemistry.* (**1,** 1932; **3,** 1935)

Cantoni, G. L., M.D. New York Univ. College of Medicine, Dept. of Pharmacology, New York City. *Fellow of the American Cancer Society.* (**3,** 1945)

Canzanelli, Attilio, M.D. Tufts College Med. School, 136 Harrison Ave., Boston, Mass. *Prof. of Exper. Physiology.* (**1,** 1934)

Carlson, A.J., Ph.D., M. D. Univ. of Chicago, Hull Physiological Lab., Chicago, Ill. *Prof. Emeritus of Physiology.* (**1,** 1904; **5,** 1933)

Carlson, Loren D., Ph.D. Univ. of Washington School of Medicine, Dept. of Physiology and Biophysics, Seattle 5. (**1,** 1945)

Carmichael, Emmett B., Ph.D. Med. College of Alabama, Dept. of Biochemistry, Birmingham 5. *Prof. and Head of Dept.* (**1,** 1931; **2,** 1946)

Carmichael, Leonard, Ph.D. Sc.D. Tufts College, Medford, Mass. *Pres.; Dir. of Research Lab. of Sensory Psychology and Physiology.* (**1,** 1937)

Carpenter, Frederick H., Ph.D. Univ. of California, Dept. of Biochemistry, Berkeley 4. *Asst. Prof.* (**2,** 1949)

Carpenter, Thorne M., Ph.D. 27 Market St., Foxboro, Mass. (**1R,** 1915; **2,** 1909; **5R,** 1935)

Carr, C. Jelleff, Ph.D. Univ. of Maryland School of Medicine, Baltimore. *Assoc. Prof. of Pharmacology.* (**3,** 1940)

Carr, Jesse L., M.D. Univ. of California Med. School, Third and Parnassus Aves., San Francisco. *Clin. Prof. of Pathology.* (**4,** 1940)

Carruthers, Christopher, Ph.D. Washington Univ. School of Medicine, Dept. of Anatomy, 4580 Scott Ave., St. Louis 10, Mo. *Research Assoc.* (**2,** 1948)

Carter, Charles E., M.D. Western Reserve Univ. School of Medicine, Cleveland 6, Ohio. *Dept. of Medicine.* (**2,** 1950)

Carter, Herbert E., Ph.D. Univ. of Illinois, 452

Noyes Lab., Urbana. *Prof. of Biochemistry.* (**2,** 1937; **5,** 1941)

Cartland, George F., Ph.D. The Upjohn Co., Research Dept., Kalamazoo, Mich. *Head of Antibiotics Research.* (**2,** 1936)

Cary, Charles A., S.B. U. S. Dept. of Agriculture, Bureau of Dairy Industry, Dairy Research Lab., Beltsville, Md. *Chief of Div. of Nutrition and Physiology.* (**2,** 1920)

Casey, Albert Eugene, M.D. 1907 Wellington Rd., Birmingham 9, Ala. *Pathologist, Baptist Hospital; Assoc. Prof. of Pathology, Med. College of Alabama.* (**4,** 1933)

Cash, James Robert, M.D. Univ. Hospital, Charlottesville, Va. *Prof. of Pathology, Univ. of Virginia.* (**4,** 1924)

Cassidy, Harold G., Ph.D. Yale Univ., Sterling Chemical Lab., New Haven, Conn. *Assoc. Prof. of Chemistry.* (**2,** 1949)

Castillo, Julio C., B.S. Wellcome Research Labs., Tuckahoe, N. Y. *Pharmacologist.* (**3,** 1950)

Castle, Edward S., Ph.D. Harvard Univ., Biological Labs., Divinity Ave., Cambridge, Mass. *Assoc. Prof. of General Physiology.* (**1,** 1934)

Castle, William B., M.D. Boston City Hospital, Boston, Mass. *Prof. of Medicine, Harvard Med. School; Dir. of Thorndike Memorial Lab.* (**4,** 1942)

Catchpole, Hubert Ralph, Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago 12, Ill. *Research Assoc. in Pathology.* (**1,** 1941)

Cathcart, E. P., M.D., D.Sc. Univ. of Glasgow, Glasgow, Scotland. *Dean of Univ.* (**5R,** 1935)

Catron, Lloyd, M.D. City Hospital, Akron, Ohio. *Pathologist.* (**4,** 1939)

Cattell, McKeen, Ph. D., M. D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Prof. of Pharmacology.* (**1,** 1923; **3,** 1924)

Cavelti, Philip A., M.D. 11406 Kingsland St., Los Angeles, Calif. (**6,** 1947)

Cederquist, Dena C., Ph.D. Michigan State College, School of Home Economics, East Lansing. *Assoc. Prof. (Research) of Foods and Nutrition.* (**5,** 1949)

Ceithaml, Joseph H., Ph.D. Univ. of Chicago, 947 E. 58th St., Chicago 37, Ill. *Asst. Prof. of Biochemistry.* (**2,** 1950)

Cerecedo, Leopold R., Ph.D. Fordham Univ., New York City. *Prof. of Biochemistry.* (**2,** 1931; **5,** 1945)

Chadwick, Leigh Edward, Ph.D. Med. Div., Army Chemical Center, Md. (**1,** 1944)

Chaikoff, I. L., Ph.D., M.D. Univ. of California, Berkeley. *Assoc. Prof. of Physiology.* (**1,** 1932)

Chalkley, Harold W., Ph.D. USPHS, Natl. Insts. of Health, Bethesda, Md. *Sr. Physiologist.* (**1,** 1932)

Chamberlain, W. Edward, M.D. Temple Univ. Med. School, Philadelphia, Pa. *Prof. of Radiology.* (**1,** 1948)

Chambers, Alfred H., Ph.D. Univ. of Vermont School of Medicine, Dept. of Physiology, Burlington. (**1,** 1946)

Chambers, Leslie Addison, Ph.D. Camp Detrick, Frederick, Md. *Chief of Physical and Chemical Div.* (**1,** 1940; **6,** 1948)

Chambers, Robert, Ph.D. New York Univ., Washington Sq., New York City. *Research Prof. Emeritus of Biology, N. Y. U.* (**1R,** 1932)

Chambers, William H., Ph.D. Med. Div., Army Chemical Center, Md. *Chief of Toxicology Branch.* (**1,** 1924; **5,** 1933)

Chambers, W. W., Ph.D. Univ. of Pennsylvania, School of Medicine, Dept. of Anatomy, Philadelphia 4. *Asst. Prof.* (**1,** 1950)

Chance, Britton, M.S., Ph.D. Univ. of Pennsylvania, Johnson Research Found., 612 Maloney Bldg., Philadelphia 4. *Prof. and Dir. of Johnson Research Foundation.* (**1,** 1950; **2,** 1950)

Chandler, Caroline A., M.D. Johns Hopkins School of Hygiene and Public Health, 615 N. Wolfe St., Baltimore 5, Md. *Asst. Prof. of Preventive Medicine.* (**6,** 1938)

Chandler, Joseph P., Ph.D. Univ. of Michigan Med. School, Room G455, Univ. Hosp., Ann Arbor. *Asst. Prof. of Biological Chemistry; Biochemist, Univ. Hosp.* (**2,** 1944; **5,** 1944)

Chang, Min Cheuh, Ph.D. Worcester Foundation, Shrewsbury, Mass. *Assoc. Fellow.* (**1,** 1946)

Chanutin, Alfred, Ph.D. Box 1862, University Station, Charlottesville, Va. *Prof. of Biochemistry, Univ. of Virginia.* (**2,** 1925)

Chapanis, Alphonse, Ph.D. Johns Hopkins Univ., Baltimore, Md. *Asst. Prof. of Psychology.* (**1,** 1948)

Chapman, C. W., Ph.D. Univ. of Maryland, Baltimore. *Prof. of Pharmacology.* (**3,** 1932)

Chargaff, Erwin, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Biological Chemistry.* (**2,** 1935)

Charipper, Harry Adolph, Ph.D. Washington Square College of Arts and Sciences, 100 Washington Square E., New York City. *Prof. and Chairman of Dept. of Biology.* (**1,** 1941)

Chase, Aurin M., Ph.D. Princeton Univ., Dept. of Biology, Princeton, N. J. *Research Assoc.; Asst. Prof.* (**1,** 1939)

Chase, Harold F., M.D. Univ. of Virginia Hospital, Charlottesville. *Dir. and Assoc. Prof. of Anesthesiology.* (**3,** 1944)

Chase, Merrill W., Ph.D. Rockefeller Inst., 66th St. and York Ave., New York City. *Member of Staff.* (**6,** 1938)

Chasis, Herbert, M.D., Med. Sc.D. 44 E. 67th St., New York City. *Asst. Prof. of Medicine, New York Univ. College of Medicine.* (**1,** 1941)

Chatfield, Charlotte, B.S. Food and Agriculture

Organization of the United Nations, Washington, D. C. *Nutrition Officer.* (**5,** 1941)

Chatfield, Paul Oakes, M.D. Harvard Med. School, Dept. of Physiology, 25 Shattuck St., Boston 15, Mass. *Associate.* (**1,** 1950)

Chatterjee, Hernendra Nath, M.D. 9 Romes Mitter Rd., Bhowanipeir, Calcutta, India. *Professor.* (**6,** 1948)

Cheever, Francis Sargent, M.D. Univ. of Pittsburgh Grad. School of Public Health, Pittsburgh 13, Pa. (**6,** 1950)

Cheldelin, Vernon H., Ph.D. Oregon State College, Corvallis. *Prof. of Chemistry.* (**2,** 1947; **5,** 1946)

Chen, Graham, Sc.D., M.D. Parke Davis and Co., Detroit, Mich. (**3,** 1944)

Chen, K. K., Ph.D., M.D. Lilly Research Labs., Indianapolis, Ind. *Dir. of Pharmacological Research; Prof. of Pharmacology, Indiana Univ. School of Medicine.* (**1,** 1929; **3,** 1942)

Cheney, Ralph H., Sc.D. Brooklyn College, Biology Dept., Bedford Ave. and Ave. H, Brooklyn 10, N. Y. *Professor.* (**3,** 1934)

Chenoweth, Maynard Burton, M.D. Univ. of Michigan Med. School, Dept. of Pharmacology, Ann Arbor. *Assoc. Prof. of Pharmacology.* (**3,** 1945)

Chesley, Leon C., Ph.D. Margaret Hague Maternity Hospital, 88 Clifton Place, Jersey City 4, N. J. *Chief Chemist.* (**1,** 1949)

Chesney, Alan M., M.D. Johns Hopkins Hospital, Baltimore, Md. *Dean of Johns Hopkins Med. School; Assoc. Prof. of Medicine.* (**4,** 1925)

Child, Charles M., Ph.D. Stanford Univ., Stanford, Calif. *Prof. Emeritus, of Zoology, Stanford Univ.* (**1R,** 1923)

Child, George P., Ph.D., M.D. Albany Med. College, Albany 3, N. Y. *Asst. Prof. of Pharmacology.* (**3,** 1949)

Chin, Yin-Ch'ang, Ph.D. 1268 Sixth Ave., San Francisco, Calif. *Research Fellow, Univ. of California; Asst. Prof., Peking Union Med. College.* (**3,** 1950)

Chinn, Herman I., Ph.D. School of Aviation Medicine, Randolph Field, Tex. *Chief, Dept. of Pharmacology and Biochemistry.* (**1,** 1950)

Choucroun, Nine. Dept. of Public Health and Preventive Medicine, 1300 York Ave., New York City 22. *Research Assoc., Cornell Med. College.* (**6,** 1949)

Chow, Bacon F., Ph.D. Johns Hopkins Univ. School of Hygiene, 615 N. Wolfe St., Baltimore 14, Md. *Assoc. Prof. of Biochemistry.* (**2,** 1940; **5,** 1948; **6,** 1944)

Christensen, Halvor N., Ph.D. Tufts College Med. School, Boston, Mass. *Prof. and Head of Dept. of Biochemistry.* (**2,** 1947)

Christensen, L. Royal, Ph.D. New York Univ. College of Medicine, Dept. of Microbiology, 477 First Ave., New York City. *Asst. Prof.* (**6,** 1942)

Christian, Henry A., M.D. 20 Chapel St., Brookline, Mass. *Hersey Prof. Emeritus of the Theory and Practice of Physics, Harvard Univ.; Physician-in-Chief, Emeritus, Peter Bent Brigham Hospital.* (**4,** 1924)

Christman, Adam A., Ph.D. Univ. of Michigan Med. School, Ann Arbor. *Prof. of Biological Chemistry.* (**2,** 1929)

Chu, Wei-chang, M.D. 546 W. 124th St., Apt. 53, New York City. (**3,** 1945)

Clark, Ada R., Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. in Bacteriology, Teaching and Research.* (**6,** 1936)

Clark, Byron B., Ph.D. Tufts College Med. School, 136 Harrison Ave., Boston 15, Mass. *Prof. of Pharmacology.* (**3,** 1940)

Clark, Eliot R., M.D. Univ. of Pennsylvania, Philadelphia. *Prof. of Anatomy.* (**1R,** 1919)

Clark, Ernest D., Ph.D. 826 Skinner Bldg., Seattle 1, Wash. *Dir. of the Labs., Northwest Branch, Natl. Canners' Assoc.* (**2,** 1912)

Clark, George, Ph.D. Chicago Med. School, Dept. of Anatomy, 710 S. Wolcott Ave., Chicago 12, Ill. *Assoc. Prof. of Neuroanatomy.* (**1,** 1943)

Clark, Guy W., Ph.D. R.F.D. 5330 Wild Horse Valley Rd., Napa, Calif. *Technical Dir., Lederle Labs., Div. of American Cyanamid Co.* (**2,** 1922)

Clark, Janet Howell, Ph.D. Univ. of Rochester, Anderson Hall, Rochester, N. Y. *Dean of the College for Women and Prof. in the Div. of Biological Sciences.* (**1,** 1922)

Clark, Paul F., Ph.D. Univ. of Wisconsin Med. School, Madison. *Prof. of Med. Microbiology.* (**4,** 1923; **6,** 1928)

Clark, William G., Ph.D. 2524 Prosser Ave., Los Angeles, Calif. *Clin. Assoc. Prof. of Physiological Chemistry, Univ. of Southern California at Los Angeles School of Medicine; Chief, Pharmacology-Physiology Section, General Med. Research Service, V. A. Center.* (**1,** 1942; **3,** 1949)

Clark, William Mansfield, Ph.D. Johns Hopkins Univ., Baltimore, Md. *Prof. of Physiological Chemistry.* (**2,** 1920)

Clarke, Hans Thacher, D.Sc. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Biological Chemistry.* (**2,** 1929)

Clarke, Robert W. Route 3, Helmwoods, Elizabethtown, Ky. *Physiologist, Med. Dept. Field Research Lab., Fort Knox.* (**1,** 1936)

Clausen, Samuel Wolcott, M.D. Univ. of Rochester School of Medicine, Rochester, N. Y. *Prof. of Pediatrics.* (**2,** 1922)

Cleghorn, Robert Allen, M.D., D.Sc. McGill Univ., Dept. of Psychiatry, Montreal, Quebec, Canada. (**1,** 1937)

Clowes, George Henry Alexander, Ph.D. Eli Lilly & Co., Indianapolis 6, Ind. *Dir. of Research Emeritus.* (**2,** 1914; **6,** 1919)

Coburn, Alvin F., M.D. Rheumatic Fever Research Inst., Chicago, Ill. *Director.* (**6,** 1948)

Code, Charles F., Ph.D., M.D. Mayo Foundation, Rochester, Minn. *Prof. of Physiology.* (**1,** 1939; **3,** 1950)

Coffey, Julia M., A.B. Div. of Labs. and Research, New York State Dept. of Health, Albany. *Assoc. Bacteriologist.* (**6,** 1937)

Coghill, Robert D., Ph.D. Abbott Labs., N. Chicago, Ill. *Dir. of Research.* (**2,** 1932)

Cohen, Barnett, Ph.D. Johns Hopkins Univ. School of Medicine, 710 N. Washington St., Baltimore 5, Md. *Assoc. Prof. of Physiological Chemistry.* (**2,** 1935)

Cohen, Philip P., Ph.D., M.D. Univ. of Wisconsin, Service Memorial Inst., Madison. *Prof. of Physiological Chemistry.* (**2,** 1941)

Cohen, Saul L., Ph.D. Univ. of Minnesota, 207 Millard Hall, Minneapolis. *Asst. Prof. of Physiological Chemistry.* (**2,** 1948)

Cohen, Seymour S., Ph.D. Children's Hospital, 1740 Bainbridge St., Philadelphia, Pa. *Assoc. Prof. of Physiological Chemistry and Pediatrics, Univ. of Pennsylvania School of Medicine.* (**2,** 1946)

Cohen, Sophia M., B.S. New York State Dept. of Health, Div. of Labs. and Research, Albany. *Sr. Bacteriologist.* (**6,** 1938)

Cohn, Alfred E., M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member.* (**1R,** 1911; **3,** 1913)

Cohn, Clarence, M.D. Michael Reese Hospital, Med. Research Inst., Chicago, Ill. *Dir. of Dept. of Biochemistry.* (**1,** 1948)

Cohn, Edwin J., Ph.D. 183 Brattle St., Cambridge, Mass. *Prof. of Biological Chemistry, Harvard Med. School; Univ. Prof., Harvard Univ.* (**1,** 1919; **2,** 1919)

Cohn, Mildred, Ph.D. Harvard Univ. Med. School, Boston 15, Mass. *Research Assoc., Biochemistry.* (**2,** 1949)

Cohn, Waldo E., Ph.D. Oak Ridge Natl. Lab., Biology Div., Oak Ridge, Tenn. *Biochemist.* (**2,** 1944)

Cole, Harold H., Ph.D. Univ. of California, College of Agriculture, Div. of Animal Husbandry, Davis. *Professor.* (**1,** 1947)

Cole, Harold N., Ph.B., M.D. 1352 Hanna Bldg., Cleveland, Ohio. *Clin. Prof. of Dermatology and Syphilology, Western Reserve Univ.* (**3,** 1925)

Cole, Kenneth S., Ph.D. Univ. of Chicago, Inst. of Radiobiology and Biophysics, Chicago 37, Ill. *Prof. of Biophysics.* (**1,** 1934)

Cole, Rufus, M.D., D.Sc. Mount Kisco, N. Y. *Member Emeritus, Rockefeller Inst. for Med. Research.* (**4R,** 1924; **6R,** 1917)

Cole, Versa V., Ph.D., M.D. Indiana Univ. School of Medicine, 1040–1232 W. Michigan St., Indianapolis. *Assoc. Prof. of Pharmacology.* (**3,** 1941)

Colfer, Harry F., M.D., Ph.D. 9 Kempshall Ter., Fanwood, N. J. *Research Physician, Merck & Co., Rahway; Asst. Physician, Presbyterian Hospital, N. Y. C.* (**1,** 1950)

Collett, Mary Elizabeth, Ph.D. Western Reserve Univ., Mather College, Cleveland, Ohio. *Assoc. Prof. of Biology.* (**1,** 1921)

Collier, H. Bruce, Ph.D. Univ. of Alberta, Dept. of Biochemistry, Edmonton, Alta., Canada. *Prof. of Biochemistry.* (**2,** 1944)

Collings, William Doyne, Ph.D. Michigan State College, Dept. of Physiology, East Lansing. (**1,** 1944)

Collins, Dean A., Ph.D., M.D. Temple Univ. School of Medicine, 3400 N. Broad St., Philadelphia 40, Pa. *Prof. of Pharmacology.* (**1,** 1938)

Collins, Russell J., A.M., M.D. St. John, New Brunswick, Canada. *Med. Superintendent of St. John Tuberculosis Hospital.* (**3,** 1915)

Collip, J. B., Ph.D. M.D. Univ. of Western Ontario, R.R. 3, London, Ontario, Canada. *Dean of Medicine and Prof. of Med. Research.* (**1,** 1920; **2,** 1920)

Colowick, Sidney P., Ph.D. Johns Hopkins Univ., McCollum Pratt Inst., Baltimore 18, Md. *Assoc. Prof.* (**2,** 1944)

Coman, Dale R., M.D. Univ. of Pennsylvania School of Medicine, McManes Lab. of Pathology, Philadelphia. *Prof. of Exper. Pathology.* (**4,** 1939)

Comroe, Julius H., Jr., M.D. Univ. of Pennsylvania Grad. School of Medicine, Philadelphia. *Prof. of Physiology and Pharmacology.* (**1,** 1943; **3,** 1939)

Conant, James B., Ph.D. Harvard Univ., 5 Univ. Hall, Cambridge, Mass. *President.* (**2,** 1932)

Concepcion, Isabelo, M.D. 589 Zamora, Pasay, Rizal, Philippines. Faculty of Medicine, Univ. Santo Tomas, Manila, Philippines. *Prof. of Biochemistry and Nutrition.* (**1,** 1919)

Conklin, Ruth E., Ph.D. Vassar College, Poughkeepsie, N. Y. *Prof. of Physiology.* (**1,** 1940)

Conn, Jerome W., M.D. Univ. of Michigan Med. School, Ann Arbor. *Assoc. Prof. of Internal Med.* (**5,** 1942)

Consolazio, William V., B.S. Office of Naval Research, Navy Dept., Washington 25, D. C. *Head of Biochemistry Branch.* (**2,** 1949)

Cook, Donald Hunter, Ph.D. Univ. of Miami, Coral Gables 34, Fla. *Prof. of Chemistry.* (**2,** 1929)

Cooke, Robert A., A.M., M.D. 60 E. 58th St., New York City. *Dir. of Dept. of Allergy, Roosevelt Hospital.* (**6,** 1920)

Coolidge, Thomas B., M.D., Ph.D. Univ. of Chicago, Abbot Hall, Chicago 37, Ill. *Assoc. Prof.,*

Dept. of Biochemistry and Walter G. Zoller Memorial Dental Clinic. (**2,** 1942)

Coon, Julius M., Ph.D., M.D. Univ. of Chicago, Chicago 37, Ill. *Assoc. Prof. of Pharmacology; Dir. of Toxicity Lab.* (**3,** 1941)

Coons, Albert H., M.D. Harvard Univ., 25 Shattuck St., Boston 15, Mass. *Assoc. in Bacteriology and Immunology.* (**6,** 1950)

Coons, Callie Mae, Ph.D. U. S. Dept. of Agriculture, Bureau of Human Nutrition and Home Economics, Washington, D. C. *Asst. Chief.* (**5,** 1933)

Cooper, Merlin L., M.D. Children's Hospital Research Foundation, Elland Ave. and Bethesda, Cincinnati 29, Ohio. *Assoc. Prof. of Bacteriology; Asst. Prof. of Pediatrics, Univ. of Cincinnati College of Medicine.* (**6,** 1949)

Cooper, Ruth S. Princeton Univ., Dept. of Biology, Princeton, N. J. (**6,** 1949)

Copley, Alfred Lewin, M.D. New York Univ., Dept. of Biology, Lab. of Cellular Physiology, Washington Square, New York City 3. *Research Assoc. in Medicine; Asst. Clin. Prof., New York Med. College.* (**1,** 1944)

Corbin, Kendall B., M.D. 919 80th St., S.W., Rochester, Minn. *Consultant in Neurology, Mayo Clinic; Prof. of Neuroanatomy, Mayo Foundation.* (**1,** 1941)

Corcoran, Arthur Curtis, C.M., M.D. Cleveland Clinic Foundation, Cleveland 6, Ohio. (**1,** 1940)

Corey, Edward Lyman, Ph.D. Univ. of Virginia School of Medicine, Charlottesville. *Prof. of Physiology.* (**1,** 1931)

Cori, Carl F., M.D. Washington Univ. School of Medicine, Kingshighway and Euclid Ave., St. Louis 10, Mo. *Prof. of Biochemistry.* (**2,** 1925; **3,** 1934)

Cori, Gerty T., M.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Prof. of Biochemistry.* (**2,** 1927; **3,** 1934)

Corley, Ralph Conner, Ph.D. Purdue Univ., Dept. of Chemistry, Lafayette, Ind. *Prof. of Biochemistry.* (**2,** 1927)

Cornatzer, W. E., Ph.D. Bowman Gray School of Medicine, Winston-Salem, N. C. *Asst. Prof. of Biochemistry.* (**2,** 1950)

Corper, Harry J., M.D., Ph.D. 1295 Clermont St., Denver 7, Colo. *Dir. of Research, Natl. Jewish Hospital and Univ. of Colorado School of Medicine.* (**2,** 1912)

Corson, Samuel A., Ph.D. Toledo Hospital Inst. of Med. Research, 2805 Oatis Ave., Toledo 6, Ohio. *Chief, Dept. of Physiology.* (**1,** 1943)

Cotts, Gerhard K., M.D. 1100 Church St., Lynchburg, Va. (**3,** 1937)

Co Tui, C. M.D. 15 E. 62nd St., New York City 21. *Dir., Biologic Research, Creadmore Inst. for Psychobiologic Studies.* (**3,** 1931)

Couch, James Russell, Ph.D. Texas A. & M. College, College Station. *Prof. of Poultry Husbandry, Biochemistry and Nutrition.* (**5,** 1950)

Cournand, Andre Frederic, M.D. Chest Service, Bellevue Hospital, C. D. Building, 1st Ave. at 28th St., New York City. *Assoc. Prof. of Medicine, College of Physicians and Surgeons, Columbia Univ.* (**1,** 1944)

Cowgill, George Raymond, Ph.D. Yale Univ., Nutrition Lab., 333 Cedar St., New Haven 11, Conn. *Prof. of Nutrition, Dept. of Physiological Chemistry.* (**1,** 1923; **2,** 1922; **5,** 1933)

Cox, Alvin J., Jr., M.D. Stanford Univ. School of Medicine, 2398 Sacramento St., San Francisco 15, Calif. *Prof. of Pathology.* (**4,** 1949)

Cox, Gerald J., Ph.D. Univ. of Pittsburgh School of Dentistry, Pittsburgh 13, Pa. *Prof. of Dental Research.* (**2,** 1930; **5,** 1935)

Cox, Herald R., Sc.D. Lederle Labs. Div., American Cyanamid Co., Pearl River, N. Y. *Dir., Viral and Rickettsial Research.* (**6,** 1946)

Cox, Warren M., Jr., Ph.D. Mead Johnson & Co., Evansville, Ind. *Dir. of Research.* (**2,** 1935; **5,** 1945)

Craig, Francis Northrop, Ph.D. Med. Div., Army Chemical Center, Md. *Chief, Applied Physiology Section.* (**1,** 1946)

Craig, L. C., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Assoc. Member.* (**2,** 1938)

Crampton, E. W., Ph.D. McGill Univ., Macdonald College, Montreal, Quebec, Canada. *Prof. of Nutrition.* (**5,** 1940)

Crandall, Lathan A., Jr., M.D., Ph.D. Miles Labs., Inc., Elkhart, Ind. (**1,** 1930)

Cranston, Elizabeth M., Ph.D. Univ. of Minnesota Med. School, Dept. of Pharmacology, Minneapolis 14. *Asst. Prof.* (**3,** 1946)

Cravens, W. W., Ph.D. Univ. of Wisconsin, Poultry Dept., Madison. *Assoc. Prof. of Poultry Husbandry.* (**5,** 1947)

Craver, Bradford N., Ph.D., M.D. Ciba Pharmaceutical Products, Inc., Lafayette Park, Summit, N. J. *Sr. Pharmacologist.* (**3,** 1946)

Crawford, Madeleine Field, Ph.D. 9 High Rock St., Needham, Mass. *Assoc. in Physiology, Harvard School of Public Health.* (**1,** 1933)

Crescitelli, Frederick, Ph.D. Univ. of California, Dept. of Zoology, Los Angeles. *Physiologist.* (**1,** 1946)

Cretcher, Leonard H., Ph.D. Univ. of Pittsburgh, Mellon Inst. of Industrial Research, Pittsburgh Pa. *Asst. Dir. and Head of Dept. of Research in Pure Chemistry.* (**2,** 1930).

Crider, Joseph O., M.D. Jefferson Med. College, Philadelphia, Pa. *Prof. of Physiology.* (**1,** 1935)

Crisler, George R., Ph.D., M.D. 157 E. New England Ave., Winter Park, Fla. (**1,** 1930)

Crismon, Jefferson Martineau, M.D. Stanford Univ., Calif. *Assoc. Prof. of Physiology.* (**1,** 1944)

Crittenden, Phoebe J., Ph.D. Goucher College, Dept. of Physiology and Bacteriology, Towson 4, Md. *Prof. and Chairman of Dept. of Physiology.* (**1,** 1937; **3,** 1937)

Crozier, William J., Ph.D. Harvard Univ., Biological Labs., Cambridge, Mass. *Prof. of General Physiology.* (**1,** 1928)

Csonka, F. A., Ph.D. U. S. Dept. of Agriculture, Bureau of Human Nutrition and Home Economics, Beltsville, Md. *Sr. Chemist.* (**2,** 1924)

Cullen, Stuart C., M.D. Univ. Hospital, Iowa City, Iowa. *Asst. Prof. of Surgery-Anesthesia.* (**3,** 1944)

Culler, Elmer A., Ph.D. Univ. of Rochester, Rochester, N. Y. *Prof. of Psychology and Dir. of Lab.* (**1R,** 1936)

Cunha, Tony Joseph, Ph.D. Univ. of Florida, Dept. of Animal Husbandry, Gainesville. *Assoc. Prof.; Assoc. Animal Husbandman.* (**5,** 1950)

Cunningham, Raymond W., Ph.D. Lederle Labs., Inc., Pearl River, N. Y. *Director, Pharmacology Research.* (**3,** 1941)

Cunningham, Robert Sydney, M.D., Sc.D. Albany Med. College, Albany, N. Y. *Prof. of Anatomy and Dean.* (**1,** 1923)

Cureton, Thomas Kirk, Jr., Ph.D. Univ. of Illinois, School of Physical Education, Urbana. *Prof. of Physical Education.* (**1,** 1946)

Curnen, Edward C., M.D. Yale Univ. School of Medicine, New Haven 11, Conn. *Assoc. Pediatrician, New Haven Hospital.* (**6,** 1941)

Curtis, George Morris, Ph.D., M.D. Ohio State Univ., Kinsman Hall, Columbus. *Prof. of Surgery; Chairman, Dept. of Research Surgery.* (**1,** 1933; **4,** 1933)

Curtis, Howard J., Ph.D. *Brookhaven Natl. Lab., Upton, L. I., N. Y.* (**1,** 1940)

Cutting, Windsor C., M.D. Stanford Univ. School of Medicine, San Francisco, Calif. *Prof. of Pharmacology and Therapeutics.* (**3,** 1939)

Daft, Floyd Shelton, Ph.D. Natl. Insts. of Health, Bethesda, Md. *Acting Director, Exper. Biology and Medicine Inst.* (**2,** 1949; **5,** 1941)

Daggs, Ray Gilbert, Ph.D. Med. Dept., Field Research Lab., Fort Knox, Ky. *Dir. of Research.* (**1,** 1935; **5,** 1933)

Dakin, Henry D., D.Sc., Ph.D. Scarborough-on-Hudson, N. Y. (**2,** 1906)

Dalldorf, Gilbert, M.D. New York State Dept. of Health, Albany. *Dir., Div. of Labs. and Research.* (**4,** 1947)

Dalton, Albert J., Ph.D. Natl. Cancer Inst., Bethesda, Md. *Principal Cytologist.* (**4,** 1942)

Dam, Henrik, Ph.D. Polytechnic Inst., Dept. of Biology, Østervoldgade 10 L, Copenhagen, K, Denmark. *Professor.* (**2,** 1944; **5,** 1943)

D'Amour, Fred E., Ph.D. 2311 S. Josephine St., Denver, Colo. *Assoc. Prof., Dept. of Zoology, Univ. of Denver.* (**1,** 1934)

D'Amour, Marie C., Ph.D., M.D. Olive View Sanatorium, Olive View, Calif. (**1,** 1934)

D'Angelo, Savino A., Ph.D. Jefferson Med. College, Dept. of Anatomy, 307 S. 11th St., Philadelphia, Pa. (**1,** 1947)

Daniel, Louise J., Ph.D. Cornell Univ., Savage Hall, Ithaca, N. Y. *Asst. Prof. of Biochemistry.* (**2,** 1949)

Daniels, Amy L., Ph.D. 720 N. Van Buren St., Iowa City, Iowa. (**2,** 1919; **5R,** 1933)

Danielson, Irvin S., Ph.D. Lederle Labs., Amer. Cyanamid Co., 18 Bogert Ave., Pearl River, N. Y. *Asst. Dir., Animal Industry Section.* (**2,** 1937)

Danowski, T. S., M.D. Univ. of Pittsburgh School of Medicine, Pittsburgh, Pa. *Renziehausen Prof. of Research Medicine.* (**1,** 1947)

Darby, William J., M.D., Ph.D. Vanderbilt Univ. School of Medicine, Div. of Nutrition, Nashville, Tenn. *Prof. of Biochemistry; Asst. Prof. of Medicine.* (**2,** 1949; **5,** 1945)

Darling, Robert Croly, M.D. 157 Glenwood Ave., Leonia, N. J. *Columbia Univ. College of Physicians and Surgeons, Dept. of Medicine, New York City 32.* (**1,** 1944)

Darrow, Chester W., Ph.D. Inst. for Juvenile Research, 907 S. Wolcott Ave., Chicago, Ill. *Psychophysiologist; Assoc. Prof. of Criminology, Univ. of Illinois College of Medicine.* (**1,** 1937)

Darrow, Daniel Cady, M.D. Yale Univ. School of Medicine, New Haven, Conn. *Prof. of Pediatrics.* (**2,** 1936)

Daubert, B. F., Ph.D. Univ. of Pittsburgh, 220 Alumni Hall, Dept. of Chemistry, Pittsburgh 13, Pa. *Research Prof. and Research Admin.* (**2,** 1947)

Davenport, Fred. M., M.D., D.M.Sc. 1303 Gardner Ave., Ann Arbor, Mich. *Research Assoc.* (**6,** 1950)

Davenport, Horace Willard, Ph.D. Univ. of Utah, Dept. of Physiology, Salt Lake City 1. (**1,** 1942)

Davenport, Virginia D., Ph.D. Univ. of Utah College of Medicine, Salt Lake City. *Research Assoc. in Physiology.* (**1,** 1950)

David, Norman Austin, M.D. Univ. of Oregon Med. School, Portland. *Prof. of Pharmacology.* (**3,** 1934)

Davidsohn, Israel, M.D. Mount Sinai Hospital, Chicago, Ill. *Pathologist and Dir. of Labs.; Chicago Med. School, Prof. of Pathology and Chairman of Dept.* (**4,** 1939; **6,** 1929)

Davidson, Charles S., M.D. Boston City Hospital, Thorndike Memorial Lab., Boston 18, Mass. *Assoc. in Medicine, Harvard Med. School; Assoc. Dir., 2nd and 4th Med. Services, Boston City Hospital.* (**5,** 1949)

Davies, Philip W., Ph.D. Johns Hopkins Univ., Biophysics Dept., Baltimore 18, Md. (**1,** 1948)

Davis, Bernard D., M.D. Cornell Univ. Med. College, New York City. *Research Assoc; Surgeon, USPHS.* (**6,** 1948)

Davis, George Kelso, Ph.D. Nutrition Lab., Animal Industry Dept., Agricultural Exper. Station, Gainesville, Fla. *Nutritional Technologist and Biochemist; Prof. of Nutrition, Univ. of Florida, Florida Agricultural Exper. Station.* (**5,** 1944)

Davis, Hallowell, M.D. Central Inst. for the Deaf, 818 S. Kingshighway, St. Louis 10, Mo. (**1,** 1925)

Davis, Harry A., M.D. College of Med. Evangelists, Dept of Surgery, 2007 Wilshire Blvd., Los Angeles 5, Calif. *Clin. Prof. of Surgery.* (**4,** 1944)

Davis, John Emerson, Ph.D. Univ. of Arkansas School of Medicine, Little Rock. *Prof. of Pharmacology and Physiology.* (**1,** 1941; **3,** 1941)

Davis, M. Edward, M.D. Chicago Lying-In Hospital, 5841 Maryland Ave., Chicago 37, Ill. *Joseph Bolivar de Lee Prof. of Obstetrics, Univ. of Chicago.* (**3,** 1950)

Dawson, Charles R., Ph.D. Columbia Univ., 411 Havemeyer Hall, New York City 27. *Assoc. Prof. of Chemistry.* (**2,** 1946)

Dawson, James Robertson, Jr., M.D. Univ. of Minnesota School of Medicine, Minneapolis 14. *Prof. of Pathology.* (**4,** 1940)

Dawson, Percy M., M.D. 97 E. Portola Ave., Los Altos, Calif. *Lecturer in Physiology, Retired, Stanford Univ.* (**1R,** 1900)

Day, Harry G., D.Sc. Indiana Univ., Dept. of Chemistry, Bloomington. *Professor.* (**2,** 1948; **5,** 1940)

Day, Paul L., Ph.D. Univ. of Arkansas School of Medicine, Little Rock. *Prof. of Biochemistry.* (**2,** 1934; **5,** 1933)

De, N. N., M.B. Indian Inst. of Science, P. O. Malleswaram, Bangalore, India. *Asst. Prof. of Pharmacology.* (**3,** 1948)

Dearborn, Earl H., Ph.D., M.D. Johns Hopkins Univ. School of Medicine, 710 N. Washington St., Baltimore 5, Md. *Asst. Prof. of Pharmacology and Exper. Therapeutics.* (**3,** 1946)

de Beer, Edwin J., Ph.D. The Wellcome Research Labs., Tuckahoe, N. Y. *Acting Dir. of Research; Head, Dept. of Pharmacology.* (**3,** 1944)

De Bodo, Richard C., M.D. 477 First Ave., New York City. *Assoc. Prof. of Pharmacology, New York Univ. College of Medicine.* (**1,** 1932; **3,** 1931)

De Boer, Benjamin, Ph.D. St. Louis Univ. School of Medicine, 1402 S. Grand Blvd., St. Louis 4, Mo. *Assoc. Prof. of Pharmacology.* (**1,** 1947; **3,** 1948)

DeEds, Floyd, Ph.D. 344 Santa Ana Ave., San Francisco, Calif. *Principal Pharmacologist, Western Regional Research Lab., Albany, Calif.* (**2,** 1937; **3,** 1927)

Defandorf, James Holmes, Ph.D. 130 Hesketh St., Chevy Chase, Md. *Colonel, Chem. Corps., A.U.S.* (**3,** 1940)

de Gara, Paul F., M.D. 200 Pinehurst Ave., New York City. *Instr. in Pathology, Cornell Univ. Med. College; Physician, New York Hospital.* (**6,** 1941)

DeGraff, Arthur C., M.D. New York Univ. College of Medicine, New York City. *Prof. of Therapeutics.* (**1,** 1950; **3,** 1937)

de Gutierrez-Mahoney, C. G., M.D. St. Vincent's Hospital, New York City. *Dir., Neurological Div. and Neurosurgeon-in-Chief.* (**1,** 1940; **4,** 1941)

Deichmann, William B., Ph.D. Albany Med. College, Albany, N. Y. *Assoc. Prof. and Head, Div. of Pharmacology.* (**3,** 1941)

del Pozo, E. C., M.D. Medellin 196, Mexico,. D.F., Mexico. (**1,** 1943)

Dempsey, Edward W., Ph.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Assoc. Prof. of Anatomy.* (**1,** 1940)

Denslow, J. S., D.O. Kirksville College of Osteopathy, Still Memorial Research Trust, Kirksville, Mo. *Researcher.* (**1,** 1949)

Denstedt, Orville F., Ph.D. McGill Univ., Dept. of Biochemistry, Montreal, Que., Canada. *Assoc. Prof.* (**2,** 1948)

Derbyshire, Arthur J., Ph.D. Harper Hospital, EEG Dept., Detroit, Mich. (**1,** 1939)

de Savitsch, Eugene, M.D. Suite 24, 1150 Connecticut Ave., Washington, D. C. *Surgeon (R) USPHS; Consulting Surgeon, Home for Incurables.* (**4,** 1934)

Dethier, Vincent G., Ph.D. Johns Hopkins Univ., Dept. of Biology, Baltimore 18, Md. *Assoc. Prof.* (**1,** 1950)

Dettwiler, Herman A., Ph.D. Eli Lilly and Co., Indianapolis, Ind. *Asst. Dir., Biological Div.* (**6,** 1946)

Deuel, Harry J., Jr., Ph.D. Univ. of Southern California, Los Angeles. *Prof. of Biochemistry and Dean of Grad. School.* (**1,** 1928; **2,** 1924; **5,** 1933)

Deulofeu, Venancio. D. Chem. Casilla Correo 2539, Buenos Aires, Argentina. *Prof. of Organic Chemistry, Univ. of Buenos Aires.* (**2,** 1942)

Deutsch, Harold F., Ph.D. Univ. of Wisconsin, Dept. of Physiological Chemistry, Madison 6. *Assoc. Prof.* (**2,** 1948)

Dewey, Virginia C., Ph.D. Amherst College, Biological Lab., Amherst, Mass. *Research Assoc., Dept. of Biology.* (**2,** 1949)

Dey, Frederick L., Ph.D., M.D. Niantic, Conn. *Lt. (j.g.), U.S.N.R.* (**1,** 1945)

Deyrup, Ingrith J., Ph.D. Barnard College,

Columbia Univ., Dept. of Zoology, New York City 27. *Asst. Prof.* (**1,** 1949)

Dickison, H. L., Ph.D. Bristol Labs., Inc., Bldg. 6, Syracuse 1, N. Y. *Dir., Pharmacological Research.* (**3,** 1946)

Dieckmann, William J., M.D. The Chicago Lying-In Hospital, 5841 Maryland Ave., Chicago 37, Ill. *Chief of Service; Prof. and Chairman of Dept. of Obstetrics and Gynecology, Univ. of Chicago.* (**3,** 1947)

Dienes, Louis, M.D. Massachusetts General Hospital, Boston. *Bacteriologist.* (**6,** 1924)

Dill, David Bruce, Ph.D. Med. Div., Army Chemical Center, Md. *Scientific Dir.* (**1,** 1941; **2,** 1927; **5,** 1936)

Dille, James M., Ph.D., M.D. Univ. of Washington School of Medicine, Seattle 5. *Prof. and Exec. Officer, Dept. of Pharmacology.* (**3,** 1939)

Dillon, Robert T., Ph.D. G.D. Searle and Co., Box 5110, Chicago 80, Ill. *Head, Analytical Div.* (**2,** 1934)

Dingle, John H., Sc.D., M.D. Western Reserve Univ. School of Medicine, Cleveland 6, Ohio. *Prof. of Preventive Medicine.* (**6,** 1941)

Di Palma, Joseph R., M.D. Long Island College of Medicine, 350 Henry St., Brooklyn, N. Y. *Assoc. in Physiology.* (**1,** 1943)

Dische, Zacharias, M.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Ophthalmology, 630 W. 168th St., New York City 32. *Asst. Prof. of Biochemistry.* (**2,** 1944)

Dittmer, Karl, Ph.D. Florida State Univ., Dept. of Chemistry, Tallahassee. *Prof. and Dept. Exec.* (**2,** 1950)

Dixon, Frank James, Jr., M.D. Washington Univ., Dept. of Pathology, Euclid Ave. and Kingshighway, St. Louis 10, Mo. *Instructor.* (**6,** 1950)

Dixon, Harold M., M.D. Veterans Admin. Regional Office, San Diego, Calif. (**4,** 1936)

Doan, Charles A., M.D. Ohio State Univ. College of Medicine, Columbus. *Dean; Prof. of Medicine.* (**4,** 1928)

Dobriner, Konrad, M.D. Sloan-Kettering Inst., 444 E. 68th St., New York City 21. *Member.* (**2,** 1946)

Dochez, A. Raymond, M.D. Presbyterian Hospital, 620 W. 168th St., New York City. *John E. Borne Prof. of Medicine and Surgical Research, Columbia Univ.* (**4R,** 1917; **6R,** 1922)

Dodd, Matthew C., Ph.D. Ohio State Univ., Dept. of Bacteriology, Columbus 10. *Assoc. Prof. of Bacteriology and Immunology.* (**6,** 1950)

Dodds, Mary L., Ph.D. Pennsylvania State College, State College. *Prof., Foods and Nutrition Research.* (**5,** 1948)

Dohan, F. Curtis, M.D. 80 Princeton Rd., Cnywyd, Pa. *Fellow, George S. Cox Med. Research Inst.; Assoc. in Medicine, Univ. of Pennsylvania.* (**1,** 1941)

Doisy, Edward A., Ph.D. St. Louis Univ. School of Medicine, St. Louis 4, Mo. *Prof. of Biological Chemistry.* (**2,** 1920)

Dolman, C. E., D.P.H., Ph.D. Univ. of British Columbia, Vancouver, B. C., Canada. *Head of Dept. of Bacteriology and Preventive Medicine.* (**6,** 1947)

Dominguez, Rafael, M.D. Western Reserve Univ., Cleveland, Ohio *Asst. Prof. of Pathology; Dir., Div. of Labs. and Research, St. Luke's Hospital.* (**1,** 1935)

Donahue, D. D., D.Sc. 4228 Military Rd., N.W., Washington 15, D. C. (**3,** 1941)

Dooley, M. S., M.D. Syracuse Univ. College of Medicine, Syracuse, N. Y. *Prof. of Pharmacology.* (**3R,** 1923)

Dorfman, Albert, PhD., M.D. Univ. of Chicago, Dept. of Pediatrics, Chicago, Ill. *Asst. Prof.* (**2,** 1948)

Dorfman, Ralph I., Ph.D. Western Reserve Univ. School of Medicine, Dept of Biochemistry, Cleveland, Ohio. *Asst. Prof. of Biochemistry.* (**2,** 1940)

Dotti, Louis Basil, Ph.D. St. Luke's Hospital, Amsterdam Ave. and 113th St., New York City. *Chemist; Lecturer in Physiology and Biochemistry, New York Med. College.* (**1,** 1937)

Doty, J. Roy, Ph.D. American Dental Assoc., 222 E. Superior St., Chicago, Ill. *Sr. Chemist.* (**2,** 1941)

Doudoroff, Michael, Ph.D. Univ. of California, Dept. of Bacteriology, 3519 Life Sciences Bldg., Berkeley 4. *Assoc. Prof.* (**2,** 1946)

Dougherty, Thomas F., Ph. D. Univ. of Utah School of Medicine, Dept. of Anatomy, Salt Lake City. *Prof. and Chairman of Dept.* (**1,** 1950)

Dounce, Alexander L., Ph.D. Strong Memorial Hospital, 260 Crittenden Blvd., Rochester, N. Y. *Instr. in Biochemistry, Univ. of Rochester School of Medicine and Dentistry.* (**2,** 1944)

Doupe, Joseph, M.D. Medical College, Dept. of Physiology and Med. Research, Bannatyne and Emily, Winnipeg, Manitoba, Canada. *Professor.* (**1,** 1949)

Dow, Philip, Ph.D. Medical College of Georgia, Augusta. *Assoc. Prof. of Physiology.* (**1,** 1939)

Dow, Robert S., M.D., Ph.D. Univ. of Oregon Med. School, Portland, *Assoc. Prof. of Anatomy.* (**1,** 1940)

Downs, Ardrey W., M.D., D.Sc. Univ. of Alberta, Edmonton, Alberta, Canada. *Prof. of Physiology and Pharmacology.* (**1R,** 1917)

Downs, Cora M., Ph.D. 1625 Alabama St., Lawrence, Kan. *Prof. of Bacteriology.* (**6,** 1929)

Doyle, William Lewis, Ph.D. 930 E. 58th St., Chicago 37, Ill. *Prof. of Anatomy, Univ. of Chicago.* (**1,** 1946)

Drabkin, David L., M.D. Univ. of Pennsylvania Grad. School of Medicine, Philadelphia 4. *Prof.*

and Chairman of Dept. of Physiological Chemistry. (**2,** 1928; **5,** 1934)

Dragstedt, Carl A., Ph.D., M.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago, Ill. *Prof. and Chairman of Dept. of Pharmacology.* (**1,** 1928; **3,** 1932)

Dragstedt, Lester R., M.D., Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Surgery.* (**1,** 1920)

Draize, J. H., Ph.D. Food and Drug Admin., Div. of Pharmacology, Federal Security Agency, Washington, D.C. *Pharmacologist.* (**3,** 1940)

Drake, T. G. H., M.B. Univ. of Toronto, Toronto, Canada. *Jr. Demonstrator in Pediatrics, Dept. of Medicine; Assoc. Dir., Research Lab., Hospital for Sick Children.* (**5,** 1936)

Draper, William B., M.Sc., M.D. Univ. of Colorado School of Medicine, 4200 E. 9th Ave., Denver. *Prof. of Physiology and Pharmacology.* (**1,** 1947; **3,** 1938)

Dreisbach, Robert H., Ph.D., M.D. Stanford Univ. School of Medicine, San Francisco 15, Calif. *Assoc. Prof. of Pharmacology.* (**3,** 1945)

Dreyer, Nicholas Bernard, M.A. Univ. of Vermont School of Medicine, Burlington. *Prof. of Physiology and Pharmacology.* (**3,** 1942)

Drill, Victor Alexander, Ph.D., M.D. Wayne Univ. College of Medicine, Detroit 26, Mich. *Prof. of Pharmacology.* (**1,** 1943; **3,** 1946)

Drinker, Cecil K., M.D. P. O. Box 502, Falmouth, Mass. (**1,** 1915)

Dripps, Robert D., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia 4. *Prof. of Anesthesiology.* (**1,** 1947; **3,** 1945)

Driver, Robert L., B.S., M.S., Ph.D. Med. College of Alabama, Birmingham 5. (**1,** 1945; **3,** 1947)

Drury, Douglas R., M.D. Univ. of Southern California, Los Angeles. *Prof. of Physiology.* (**1,** 1932)

Dubin, Harry E., Ph.D. 11 W. 42nd St., New York City 18. *President, H.E. Dubin Labs., Inc.* (**2,** 1925)

Dubin, Isadore N., M.D. Natl. Cancer Inst., Bethesda, Md. *Special Research Fellow.* (**4,** 1947)

Dubnoff, Jacob W., Ph.D. 1201 E. California St., Pasadena 4, Calif. *Sr. Research Fellow, California Inst. of Technology.* (**2,** 1946)

DuBois, Eugene F., M.D. Cornell Univ. Med. School, 1300 York Ave., New York City. *Prof. and Head of Dept. of Physiology and Biophysics; Attending Physician, New York Hospital.* (**1,** 1913; **3R,** 1921; **5R,** 1935)

Du Bois, Kenneth P., Ph.D. Univ. of Chicago, Dept. of Pharmacology, Chicago 37, Ill. *Asst. Prof.* (**3,** 1946)

Dubos, Rene J., Ph.D., D.Sc. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Head of Dept. of Bacteriology.* (**6,** 1938)

Dugal, L. Paul, Ph.D. Laval Univ. Med. School, Research Dept. on Acclimatization, Quebec City, Canada. *Research Prof. and Head of Dept., Assoc. Dir. of Inst. of Hygiene.* (**1,** 1947)

Dukes, H. H., D.V.M., M.S. Cornell Univ., New York State Veterinary College, Ithaca. *Prof. of Veterinary Physiology.* (**1,** 1934)

Dulaney, Anna D., Ph.D. Univ. of Tennessee, Pathological Inst., Memphis. *Assoc. Prof. of Bacteriology, Med. School.* (**6,** 1924)

Dumke, Paul Rudolph, M.D. Hospital of the Univ. of Pennsylvania, Dept. of Anesthesiology, Philadelphia. *Assoc. Prof.; Assoc. in Clin. Pharmacology, Univ. of Pennsylvania.* (**3,** 1942)

Dumm, Mary E., Ph.D. New York Univ.-Bellevue Med. Center, 477 First Ave., New York City 16. *Adjunct Asst. Prof. of Chemistry.* (**1,** 1950)

Dunlap, Charles E., M.D. Tulane Univ. of Louisiana, 1430 Tulane Ave., New Orleans. *Prof. of Pathology.* (**4,** 1942)

Dunn, Max Shaw, Ph.D. Univ. of California, Los Angeles. *Prof. of Chemistry.* (**2,** 1933)

Dunn, Thelma Brumfield, M.D. Natl. Cancer Inst., Bethesda, Md. *Pathologist.* (**4,** 1945)

Durlacher, Stanley H. Med. Div., Army Chemical Center, Md. *Chief, Section on Pathology.* (**1,** 1949)

Durrant, Edwin P., Ph.D. Ohio State Univ., Columbus. *Assoc. Prof. Emeritus of Physiology.* (**1R,** 1928)

Dury, Abraham, Ph.D. Dorn Lab. for Med. Research, Bradford Clinic, Bennett at Pleasant St., Bradford, Pa. *Asst. Dir. of Research.* (**1,** 1948)

Dutcher, James D., Ph.D. Squibb Inst. for Med. Research, New Brunswick, N. J. *Research Assoc., Div. of Organic Chemistry.* (**2,** 1946)

Dutcher, R. Adams, D.Sc. Pennsylvania State College, State College. *Prof. and Head of Dept. of Agriculture and Biochemistry.* (**2,** 1920; **5,** 1933)

Duval, Charles Warren, M.D. Sacred Heart Hospital, Pensacola, Fla. *Prof. Emeritus of Pathology and Bacteriology, Tulane Univ.* (**4,** 1913)

du Vigneaud, Vincent, Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Prof. of Biochemistry.* (**2,** 1929; **5,** 1934)

Dworkin, Simon, D.D.S., M.D. McGill Univ., Biology Building, Montreal, Quebec, Canada. *Lecturer in Physiology, Faculty of Medicine.* (**1,** 1931)

Dye, J. A., Ph.D. Cornell Univ., James Law Hall Ithaca, N. Y. *Prof. of Physiology.* (**1,** 1929)

Dye, Marie, Ph.D. Michigan State College, East Lansing. *Dean, School of Home Economics.* (**2,** 1929; **5,** 1933)

Dyer, Helen M., Ph.D. Natl. Cancer Inst. Bethesda, Md. *Biochemist.* (**2,** 1936; **5,** 1937)

Dziemian, Arthur J., Ph.D. Med. Div., Army Chemical Center, Md. *Physiologist, Biophysics Section.* (**1,** 1948)

Dziewiatkowski, Dominic D., Ph.D. Rockefeller Inst. for Med. Research, Hospital, 66th St. and York Ave., New York City 21. *Assoc., Dept. of Biochemistry.* (**2,** 1950)

Eadie, George S., Ph.D. Duke Univ. School of Medicine, Box 3709, Durham, N. C. *Prof. of Physiology and Pharmacology.* (**1,** 1929; **3,** 1940)

Eagle, Edward, Ph.D. Swift and Co., Research Labs., Chicago 9, Ill. *Research Physiologist.* (**1,** 1950)

Eagle, Harry, M.D. Natl. Insts. of Health, Bethesda, Md. *Med. Dir., USPHS; Chief of Section on Exper. Therapeutics, Microbiological Inst.* (**3,** 1946; **4,** 1936)

Eakin, Robert E., Ph.D. Univ. of Texas, Dept. of Chemistry, Austin. *Assoc. Prof. of Chemistry.* (**2,** 1948)

Earle, D. P., Jr., M.D., Med. Sc. D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Assoc. Prof. of Medicine.* (**1,** 1947)

Earle, Wilton R., Ph.D. Natl. Cancer Inst., Bethesda, Md. *Cytologist; Head of Tissue Culture Unit.* (**4,** 1940)

Eaton, Monroe D., M.D. Harvard Med. School, Boston, Mass. *Assoc. Prof. of Bacteriology and Immunology.* (**6,** 1937)

Eckenhoff, James E., M.D. Hospital of the Univ. of Pennsylvania, Philadelphia. *Asst. Prof. of Anesthesiology; Assoc. in Clin. Pharmacology, Univ. of Pennsylvania.* (**1,** 1948)

Ecker, E. E., Ph.D. Western Reserve Univ. School of Medicine, 2085 Adelbert Rd., Cleveland, Ohio. *Prof. of Immunology.* (**4,** 1925; **6,** 1947)

Eckstein, Gustav, M.D. Univ. of Cincinnati College of Medicine, Cincinnati, Ohio. *Assoc. Prof. of Physiology.* (**1,** 1948)

Eckstein, Henry C., Ph.D. Univ. of Michigan, 320 W. Med. Building, Ann Arbor. *Assoc. Prof. of Biological Chemistry.* (**2,** 1925)

Eckstein, R. W., M.A., M.D. Western Reserve Univ., Dept. of Medicine, Cleveland, Ohio. *Sr. Instr.; in charge of Cardiovascular Exper. Med. Research Lab.* (**1,** 1947)

Eddy, Bernice E., Ph.D. Natl. Insts. of Health, Inst. of Microbiology, Bethesda 14, Md. *Sr. Bacteriologist.* (**6,** 1949)

Eddy, Nathan B., M.D. Natl. Insts. of Health, Bethesda, Md. *Med. Officer.* (**3,** 1929)

Eddy, Walter H., Ph.D. Southern Bio. Research Lab., Florida Southern College, Lakeland. *Assoc. Dir.* (**2,** 1913; **5R,** 1933)

Edelmann, Abraham, Ph.D. Brookhaven Natl. Labs., Upton, L. I., N. Y. *Physiologist.* (**1,** 1948)

Ederstrom, Helge E., Ph.D. St. Louis Univ. School of Medicine, Dept. of Physiology, 1402 S. Grand Blvd., St. Louis 4, Mo. *Asst. Prof.* (**1,** 1949)

Edholm, O. G., M.B. Natl. Inst. for Med. Research, Hampstead, London, N.W. 3, England. *Head, Dept. of Human Physiology.* (**1,** 1948)

Edsall, Geoffrey, M.D. Boston Univ. School of Medicine, 80 E. Concord St., Boston 18, Mass. *Prof. of Bacteriology.* (**6,** 1943)

Edsall, John Tileston, M.D. Harvard Med. School, Univ. Lab., Boston, Mass. *Assoc. Prof. of Biological Chemistry; Tutor in Biochemical Sciences.* (**2,** 1931)

Edwards, Dayton J., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Assoc. Prof. of Physiology; Asst. Dean.* (**1,** 1921)

Edwards, Jesse E., M.D. Mayo Clinic, Rochester 4, Minn. *Asst. Prof. of Pathologic Anatomy, Mayo Foundation.* (**4,** 1941)

Edwards, J. Graham, Ph.D. 24 High St., Buffalo, N. Y. *Assoc. Prof. of Anatomy, Univ. of Buffalo.* (**1,** 1932)

Edwards, Leslie E., Ph.D. Med. College of Virginia, Dept. of Physiology and Pharmacology, Richmond. *Asst. Prof.* (**1,** 1950)

Eggerth, Arnold H., Ph.D. Hoagland Lab., 335 Henry St., Brooklyn, N. Y. *Assoc. Prof. of Microbiology and Immunology, State Univ. Med. Center at New York.* (**4,** 1925)

Ehrenstein, Maximilian R., Ph.D. Univ. of Pennsylvania Hospital, 806 Maloney Clinic, 36th and Spruce Sts., Philadelphia 4. *Prof. of Physiological Chemistry assigned to Medicine, Univ. of Pennsylvania School of Medicine.* (**2,** 1942)

Ehrich, William E., M.D. Univ. of Pennsylvania, Philadelphia. *Prof. of Pathology, Grad. School of Medicine; Chief, Div. of Pathology, Philadelphia General Hospital.* (**4,** 1945)

Eichelberger, Lillian, Ph.D. Univ. of Chicago, Dept. of Surgery, Chicago, Ill. *Assoc. Prof. of Biochemistry.* (**2,** 1937)

Eichna, Ludwig W., M.D. New York Univ. College of Medicine, Dept. of Medicine, 477 First Ave., New York City 16. *Assoc. Prof. of Medicine; Visiting Physician, Bellevue Hospital.* (**1,** 1949)

Eiler, John J., Ph.D. Univ. of California Med. Center, San Francisco 22. *Assoc. Prof. of Biochemistry and Pharmacology, Univ. of California College of Pharmacy.* (**2,** 1948)

Eisenman, Anna J., Ph.D. U. S. Public Health Service Hospital, Lexington, Ky. *Biological Chemist.* (**2,** 1930)

Elberg, Sanford S., Ph.D. Camp Detrick, Frederick, Md. (**6,** 1948)

Elderfield, Robert C., Ph.D. Columbia Univ., New York City. *Prof. of Chemistry.* (**2,** 1934)

Elftman, Herbert, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City. *Assoc. Prof. in Anatomy.* (**1,** 1940)

Eliot, Martha M., M.D. World Health Organization, Palais des Nations, Geneva, Switzerland. *Asst. Dir. General.* (**5,** 1933)

Elkinton, J. Russell, M.D. Univ. of Pennsylvania Hospital, Dept. of Medicine. Philadelphia. (**1,** 1947)

Elliott, Henry W., Ph.D. Univ. of California Med. School, San Francisco. *Lecturer and Research Assoc. in Pharmacology.* (**3,** 1948)

Elliott, K. Allan C., Ph.D. Montreal Neurological Inst., 3801 Univ. St., Montreal, Que., Canada. *Asst. Prof. of Exper. Neurology and Biochemistry.* (**2,** 1937)

Ellis, C. H., Ph.D. Labs. of Gordon A. Alles, 770 S. Arroyo Parkway, Pasadena 5, Calif. *Research Assoc. in Physiology.* (**1,** 1947)

Ellis, Fred W., Ph.D. Univ. of North Carolina, Chapel Hill. *Assoc. Prof. of Pharmacology.* (**3,** 1945)

Ellis, Lillian N., Ph.D. Adelphi College, Garden City, Long Island, N. Y. *Instr. in Chemistry.* (**5,** 1940)

Ellis, Max Mapes, Ph.D. Univ. of Missouri Med. School, Columbia. *Prof. of Physiology and Pharmacology.* (**1,** 1923)

Ellis, N. R., M.S. U. S. Dept. of Agriculture, Bureau of Animal Industry, Beltsville, Md. *Asst. Chief, Animal Husbandry Div.* (**2,** 1928; **5,** 1933)

Ellis, Sidney, Ph.D. Temple Univ. Med. School, Dept. of Pharmacology. Philadelphia, Pa. *Assoc. Prof.* (**3,** 1947)

Elmadjian, Fred, Ph.D. Worcester State Hospital, Worcester, Mass. *Staff Member, Worcester Foundation for Exper. Biology; Research Assoc., Physiology Dept., Tufts Med. School.* (**1,** 1950)

Elrod, Ralph P., Ph.D. 406 Med. General Lab., APO 500, % Postmaster, San Francisco, Calif. (**6,** 1947)

Elser, William J., M.D. Kent, Conn. (**6R,** 1920)

Elvehjem, Conrad Arnold, Ph.D. Univ. of Wisconsin, Biochemistry Bldg., Madison. *Chairman, Dept. of Biochemistry; Dean of Grad. School.* (**2,** 1931; **5,** 1933)

Embree, Norris Dean, Ph.D. Distillation Products, Inc., 755 Ridge Rd. W., Rochester 13, N. Y. *Dir. of Research.* (**2,** 1946)

Emerson, George A., Ph.D. Univ. of Texas, Med. Branch, Galveston. *Prof. of Pharmacology.* (**3,** 1935)

Emerson, Gladys A., Ph.D. Merck Inst. of Therapeutic Research, Rahway, N. J. *Nutritionist.* (**5,** 1942)

Emerson, Oliver H., Ph.D. U. S. Dept. of Agriculture, Western Regional Research Lab., Albany 6, Calif. *Assoc. Chemist.* (**2,** 1938)

Emery, Frederick E., D.V.M., Ph.D. Univ. of Arkansas School of Medicine, Little Rock. *Prof. of Physiology and Pharmacology.* (**1,** 1930)

Emmart, Emily W., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Cytologist.* (**3,** 1947)

Enders, John F., Ph.D. Harvard Univ. Med. School, Dept. of Bacteriology, Boston, Mass. *Assoc. Prof. of Bacteriology and Immunology; Chief, Research Div. of Infectious Diseases, Children's Hospital.* (**6,** 1936)

Endicott, Kenneth M., M.D. USPHS, Natl. Insts. of Health, Bethesda 14, Md. *Chief of Section on Metabolic and Degenerative Disease.* (**4,** 1947)

Engel, Frank L., M.D. Duke Univ. School of Medicine, Durham, N. C. *Asst. Prof. of Medicine.* (**1,** 1947)

Engel, Lewis L., Ph.D., Massachusetts General Hospital, Huntington Labs., Boston. *Research Assoc. in Biological Chemistry, Harvard Med. School; Tutor in Biological Sciences, Harvard Univ.* (**2,** 1949)

Engel, Ruben W., Ph.D. Alabama Polytechnic Inst., Lab. of Animal Nutrition, Auburn. *Animal Nutritionist.* (**5,** 1948)

Engle, Earl Theron, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City. *Prof. of Anatomy.* (**1,** 1930)

English, James, Jr., Ph.D. Yale Univ., Sterling Chemistry Lab., New Haven, Conn. *Asst. Prof. of Chemistry.* (**2,** 1946)

Enright, John B., Ph.D. Univ. of California, School of Veterinary Medicine, Davis. *Supervising Bacteriologist.* (**6,** 1948)

Epstein, Albert A., M.D. 1111 Madison Ave., New York City. *Physician, Beth Israel Hospital and Hospital for Joint Diseases.* (**2,** 1912)

Ercoli, N., M.D., Ph.D. Warner Inst. for Therapeutic Research, New York City 11. *Dir. of Pharmacological Research.* (**3,** 1947)

Erickson, Cyrus C., M.D. Univ. of Tennessee, Inst. of Pathology, Memphis 3. *Prof. of Pathology.* (**4,** 1941)

Erickson, John Otto, Ph.D. Veterans Admin. Center, Radioisotope Lab., Wilshire and Sawtelle Blvds., Los Angeles 25, Calif. *Radioisotope Scientist.* (**6,** 1946)

Erlanger, Joseph, M.D., Sc.D. Washington Univ. School of Medicine, St. Louis, Mo. *Prof. Emeritus of Physiology.* (**1R,** 1901)

Ershoff, Benjamin H., Ph.D. 1207 S. Vermont Ave., Los Angeles 6, Calif. *Research Assoc., Dept. of Biochemistry and Nutrition, Univ. of Southern California; Dir. of Research, Emory W. Thurston Labs., Los Angeles.* (**5,** 1950)

Eschenbrenner, Allen B., M.D. Natl. Insts. of

Health, Natl. Cancer Inst., Bethesda 14, Md. (**4,** 1946)

Espe, Dwight L., Ph.D. U.S.D.A., Office of Exper. Stations, Washington 25, D. C. (**1,** 1940)

Essex, Hiram E., Ph.D. Mayo Foundation, Inst. of Exper. Medicine, Rochester, Minn. *Prof. of Physiology.* (**1,** 1932; **3,** 1940)

Ettinger, C. H., M.D., C.M. Queen's Univ., Kingston, Ontario, Canada. *Prof. of Physiology; Asst. Dir., Div. of Med. Research, Natl. Research Council, Ottawa.* (**1,** 1943)

Evans, Earl Alison, Jr., Ph.D. Univ. of Chicago, Dept. of Biochemistry, Chicago, Ill. *Prof. and Chairman of Dept.* (**2,** 1939)

Evans, Everett Idris, M.D., Ph.D. Med. College of Virginia, Richmond. *Prof. of Surgery; Dir., Lab. of Surgical Research.* (**1,** 1935)

Evans, Gerald Taylor, M.D., Ph.D. Univ. of Minnesota Hospitals, Minneapolis. *Dir. of Lab. Service; Assoc. Prof. of Medicine, Univ. of Minnesota.* (**1,** 1942)

Evans, Herbert M., M.D. Univ. of California, Berkeley. *Prof. of Anatomy and Dir. of Inst. of Exper. Biology.* (**1,** 1919)

Evans, Titus C., Ph.D. State Univ. of Iowa, College, of Medicine, Iowa City. *Research Prof; Head of Radiation Research Lab.* (**1,** 1949)

Eveleth, D. F., Ph.D., D.V.M. North Dakota Agricultural College, Fargo. *Prof. of Veterinary Science, North Dakota Agricultural Exper. Station.* (**2,** 1939)

Everett, Guy M., Ph.D. Abbott Labs., Research Div., N. Chicago, Ill. *Sr. Pharmacologist.* (**3,** 1950)

Everett, Mark R., Ph.D. Univ. of Oklahoma School of Medicine, 800 N. E. 13th St., Oklahoma City 4. *Dean, School of Medicine; Supt. of Univ. Hospitals.* (**2,** 1929)

Eversole, Wilburn J., M.Sc., Ph.D. Syracuse Univ., Rm. 27, Lyman Hall, Syracuse 10, N. Y. *Assoc. Prof. of Zoology.* (**1,** 1950)

Everson, Gladys, Ph.D. Iowa State College, Ames. *Assoc. Prof. of Nutrition.* (**5,** 1948)

Ewing, P. L., Ph.D. Univ. of Texas School of Medicine, Galveston. *Assoc. Prof. of Pharmacology.* (**3,** 1938)

Eyster, John A. English, M.D. Univ. of Wisconsin, Madison. *Prof. of Physiology.* (**1,** 1906; **3R,** 1908)

Fahr, George, M.D. Univ. of Minnesota, 102 Millard Hall, Minneapolis. *Prof. of Clin. Medicine.* (**1,** 1913; **3,** 1940)

Failey, Crawford F., Ph.D. 416 S. 6th St., Terre Haute, Ind. *Prof. of Biochemistry, Univ. of Chicago.* (**2,** 1933)

Fairhall, Lawrence T., Ph.D. USPHS, Washington, D. C. *Scientist Dir.* (**2,** 1924)

Falk, Carolyn R., B.A. 40 E. 66th St., New York City. *Bacteriologist, Bureau of Labs., Dept. of Health.* (**6,** 1943)

Falk, K. George, Ph.D. Lab. of Industrial Hygiene, Inc., 254 W. 31st St., New York City 1. *Director.* (**2,** 1913)

Famulener, Lemuel W., Ph.D., M.D. 275 Engle St., Englewood, N. J. (**6R,** 1920)

Farah, Alfred E., M.D. Univ. of Washington School of Medicine, Seattle. *Assoc. Prof. of Pharmacology.* (**3,** 1948)

Farber, Sidney, M.D. Harvard Med. School, 25 Shattuck St., Boston, Mass. *Asst. Prof. of Pathology.* (**4,** 1934)

Farmer, Chester J., A.M. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago, Ill. *Prof. of Chemistry.* (**2,** 1935)

Farr, Lee E., M.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Chairman, Med. Dept.; Dir., Dept. of Med. Sciences; Physician-in-Chief, Brookhaven Natl. Lab. Hospital.* (**4,** 1941)

Farrar, George E., Jr., M.D. Wyeth Inc., 1600 Arch St., Philadelphia 3, Pa. *Med. Dir.* (**3,** 1947)

Farrell, James L., Ph.D., M.D. 636 Church St., Evanston, Ill. (**1,** 1938)

Fassett, David W., M.D. Eastman Kodak Co., Lab. of Industrial Medicine, Kodak Park Works, Rochester, N. Y. *Dir. of Lab.* (**3,** 1942)

Faulconer, Albert, Jr., M.D. Mayo Clinic, Rochester, Minn. *Consultant in Anesthesiology.* (**3,** 1950)

Fay, Marion, Ph.D. Woman's Med. College of Pennsylvania, Philadelphia 29. *Dean; Prof. of Physiological Chemistry.* (**2,** 1937)

Featherstone, Robert M., Ph.D. State Univ. of Iowa, College of Medicine, Iowa City. *Assoc. Prof. of Pharmacology.* (**3,** 1947)

Feigen, George A., Ph.D. Stanford Univ., Dept. of Physiology, Stanford, Calif. *Instructor.* (**1,** 1948)

Feinstein, Robert N., Ph.D. Univ. of Chicago, Toxicity Lab., 930 E. 58th St., Chicago 37, Ill. *Asst. Prof., Dept. of Biochemistry.* (**2,** 1950)

Feldman, Harry A., M.D. 704 Crawford Ave., Syracuse 10, N. Y. *Assoc. Prof. of Medicine.* (**6,** 1943)

Feldman, William H., D.V.M., M.S., D.Sc. Mayo Foundation, Rochester, Minn. *Prof. in the Div. of Exper. Surgery and Pathology.* (**4,** 1934)

Fell, Norbert, Ph.D. 1880 N.W. 28th St., Miami, Fla. (**6,** 1944)

Feller, A. E., M.D. Western Reserve School of Medicine, Cleveland 6, Ohio. *Assoc. Prof. of Preventive Medicine.* (**6,** 1943)

Fellows, Edwin J., Ph.D. Temple Univ. School of Medicine, Philadelphia, Pa. *Asst. Prof. of Pharmacology.* (**3,** 1939)

Felsenfeld, Oscar, M.D., D.T.M.& H. Hektoen

Research Inst., 629 South Wood St., Chicago 12, Ill. *Dir. of Bacteriology.* (**6,** 1949)

Felton, Lloyd D., M.D., D.Sc. USPHS, Natl. Insts. of Health, Bethesda, Md. *Med. Dir.* (**6,** 1926)

Fenn, Wallace Osgood, Ph.D. Univ. of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester, N. Y. *Prof. of Physiology.* (**1,** 1924)

Fenning, Con, M.D. Univ. of Utah School of Medicine, Salt Lake City. *Prof. of Pharmacology and Physiology.* (**1,** 1942)

Fenton, P. F., Ph.D. Brown Univ., Providence, R. I. *Assoc. Prof. of Biology.* (**1,** 1947; **5,** 1949)

Ferguson, Frederick P., Ph.D. Univ. of Maryland School of Medicine, Dept. of Physiology, Baltimore 1. (**1,** 1949)

Ferguson, James Kenneth Wallace, M.A., M.D. 76 Kilbarry Rd., Toronto, Ont., Canada. *Prof. of Pharmacology, Univ. of Toronto.* (**1,** 1933; **3,** 1941)

Ferguson, John, Ph.D. Creighton Univ. School of Medicine, Omaha 2, Neb. *Asst. Prof. of Physiology.* (**1,** 1949)

Ferguson, John Howard, M.A., M.D. Univ. of North Carolina School of Medicine, Dept. of Physiology, Chapel Hill. *Prof. of Physiology and Acting Prof. of Pharmacology.* (**1,** 1933)

Ferguson, L. Kraeer, M.D. 133 S. 36th St., Philadelphia 4, Pa. *Prof. of Surgery, Grad. School, Univ. of Pennsylvania; Surgeon, Doctors' Hospital and Woman's Med. College, Philadelphia General Hosp.* (**4,** 1935)

Ferguson, Ralph L., M.D. 606 Porter St., Joplin Mo. (**4,** 1949)

Ferry, John Douglass, Ph.D. Univ. of Wisconsin, Madison. *Prof. of Chemistry.* (**2,** 1941)

Ferry, Ronald M., M.D. 966 Memorial Drive, Cambridge, Mass. *Assoc. Prof. of Biochemistry and Tutor in Biochem. Sciences, Harvard Univ.; Master of Winthrop House.* (**2,** 1924)

Fetcher, Edwin S., Ph.D. Steamboat Springs, Colo. (**1,** 1944)

Fetter, Dorothy, Ph.D. Brooklyn College, Dept. of Hygiene, Brooklyn, N. Y. *Instr. in Physiology.* (**1,** 1944)

Fevold, Harry L., Ph.D. Quartermaster Food and Container Inst., 1849 W. Pershing Rd., Chicago 9, Ill. *Chief, Food Research Div.* (**2,** 1942)

Field, John, II, Ph.D. Navy Dept. Office of Naval Research, Med. Sciences Div., Washington, D. C. *Head of Ecology Branch.* (**1,** 1930)

Fincke, Margaret L., Ph.D. Oregon State College, Corvallis. *Prof. and Head of Dept. of Foods and Nutrition, Dept. of Home Economics.* (**5,** 1940)

Findley, Thomas, Jr., M.D. Ochsner Clinic, 3503 Prytania, New Orleans, La. *Head of Dept. of Internal Medicine; Asst. Prof. of Clin. Medicine, Tulane Univ. School of Medicine.* (**1,** 1938)

Finerty, John C., Ph.D. Univ. of Texas Med. Branch, Galveston. *Assoc. Prof. of Anatomy.* (**1,** 1947)

Finland, Maxwell, M.D. Boston City Hospital, Boston, Mass. *Asst. Prof. of Medicine, Harvard Med. School.* (**6,** 1941)

Finnegan, J. K., Ph.D. Med. College of Virginia, Richmond 19. *Assoc. Prof. of Pharmacology.* (**3,** 1947)

Firor, Warfield Monroe, M.D. Johns Hopkins Hospital, Baltimore, Md. *Assoc. Prof. of Surgery, Johns Hopkins Univ.* (**1,** 1932)

Fischel, Edward E., M.D., D.Med.Sc. 23 Haven Ave., New York City 32. *Fellow in Medicine, Columbia Univ.* (**6,** 1948)

Fischer, Ernst, M.D. Med. College of Virginia, Richmond. *Prof. of Physiology.* (**1,** 1936)

Fischer, Hermann O. L., Ph.D. Univ. of California, Virus Lab., Forestry Bldg., Berkeley 4. *Lecturer, Dept. of Biochemistry.* (**2,** 1940)

Fischer, Martin H., M.D. Univ. of Cincinnati College of Medicine, Eden Ave., Cincinnati 19, Ohio. *Prof. of Physiology.* (**1,** 1901; **2,** 1919)

Fishberg, Ella H., M.A., M.D. Beth Israel Hospital, Stuyvesant Park E., New York City. *Biochemist.* (**2,** 1931)

Fisher, Albert Madden, Ph.D. Univ. of Toronto, Connaught Med. Research Labs., Toronto 5, Ont., Canada. *Asst. Dir.* (**2,** 1944)

Fisher, Kenneth C., Ph.D. Defense Research Northern Lab., Fort Churchill, Manitoba, Canada. *Superintendent.* (**1,** 1940)

Fishman, William H., Ph.D. Tufts College Med. School, 30 Bennet St., Boston 15, Mass. *Research Prof. of Biochemistry.* (**2,** 1947)

Fiske, Cyrus H., M.D. Harvard Med. School, Boston, Mass. *Prof. of Biological Chemistry.* (**2,** 1914)

Fitzgerald, Mabel P., 54 A. George Sq., Edinburgh, Scotland. (**1R,** 1913)

Fitzhugh, O. Garth, Ph.D. Federal Security Agency, Food and Drug Admin., Div. of Pharmacology, Washington, D. C. *Chief, Chronic Toxicity Branch.* (**3,** 1940)

Fleischmann, Walter, M.D., Ph.D. V. A. Hospital, Fort Howard, Md. *Dr., Sr. Grade; Instr. in Pediatrics, Johns Hopkins Univ.* (**1,** 1940)

Fleisher, Moyer S., M.D. Jewish Hospital, St. Louis, Mo. *Research Bacteriologist.* (**4,** 1924; **6,** 1932)

Flexner, Louis B., M.D. Carnegie Labs., Carnegie Inst. of Washington, Wolfe and Madison Sts., Baltimore 5, Md. *Staff member, Dept. of Embryology.* (**1,** 1933; **2,** 1948)

Flick, John A. Univ. of Pennsylvania School of Medicine, Dept. of Bacteriology, Philadelphia 4. *Asst. Prof. of Bacteriology.* (**6,** 1949)

Flock, Eunice V., Ph.D. Mayo Clinic, Rochester, Minn. *Assoc. Prof. in Exper. Medicine, Mayo Foundation, Univ. of Minnesota.* (**2,** 1940)

Florman, Alfred L., M.D. Mt. Sinai Hospital, New York City. *Investigator in Virology.* (**6,** 1942)

Flosdorf, Earl W., Ph.D. Forest Grove, Pa. *Dir. of Research, F. J. Stokes Machine Co., Philadelphia.* (**6,** 1941)

Floyd, Cleveland, M.D., Sc.D. 246 Marlborough St., Boston, Mass. *Chief Examiner, Boston Health Dept.* (**6,** 1916)

Foa, Piero Pio, Ph.D. 710 S. Wolcott St., Chicago, Ill. *Assoc. Prof. of Physiology and Pharmacology, Chicago Med. School.* (**1,** 1944)

Folch, Jordi, M.D. McLean Hospital, Waverly, Mass. *Asst. Prof. of Biological Chemistry, Harvard Med. School; Dir. of Scientific Research, McLean Hospital.* (**2,** 1941)

Folkers, Karl, Ph.D. Merck and Co., Inc., Rahway, N. J. *Dir. of Organic and Biochemical Research.* (**2,** 1947)

Follensby, Edna M., Ph.D. 80 E. Concord St., Boston, Mass. *Research Asst., Evans Memorial; Special Instr. in Biology, Simmons College.* (**6,** 1933)

Follis, Richard H., Jr., M.D. Johns Hopkins Univ. School of Medicine, Baltimore, Md. *Assoc. Prof. of Pathology.* (**4,** 1942)

Fontaine, Thomas Davis, Ph.D. U. S. Dept. of Agriculture, Bureau of Agricultural and Industrial Chemistry, Beltsville, Md. *Biochemist; Head, Div. of Biologically Active Compounds.* (**2,** 1946)

Foot, Nathan Chandler, M.D. Cornell Univ. Med. College, New York City. *Prof. Emeritus of Surgical Pathology.* (**4,** 1924)

Forbes, Alexander, A.M., M.D. Harvard University, Biological Labs., Divinity Ave., Boston, Mass. (**1,** 1910)

Forbes, Ernest B., Ph.D. State College, Pa. *Prof. Emeritus of Animal Nutrition.* (**1R,** 1917; **5R,** 1935)

Forbes, Henry S., M.D. Harvard Med. School, Boston, Mass. *Assoc. in Neuropathology.* (**1R,** 1931)

Forbes, John C., Ph.D. Med. College of Virginia, Richmond. *Research Prof. of Biochemistry.* (**2,** 1937)

Forbes, William H., Ph.D. Harvard Univ., Boston, Mass. *Asst. Dir., Fatigue Lab.; Asst. Prof. of Industrial Physiology.* (**1,** 1943)

Forman, Carolyn, M.D. New York Hospital, Dept. of Pediatrics, 525 E. 68th St., New York City 21. *Research Fellow.* (**4,** 1950)

Forney, Robert B., Ph.D. Indiana Univ. School of Medicine, Indianapolis. *Asst. Prof. of Toxicology.* (**3,** 1950)

Forssander, C. A., M.D. Univ. College of the West Indies, Dept. of Physiology, Kingston, Jamaica, B.W.I. (**1,** 1950)

Forster, Francis M., M.D. 3800 Reservoir Rd., Washington, D. C. *Prof. and Dir. of Dept. of Neurology, Georgetown Univ. School of Medicine,* (**1,** 1948)

Forster, Roy P., Ph.M., Ph.D. Dartmouth College, Dept. of Zoology, Hanover, N. H. *Professor.* (**1,** 1950)

Fosdick, Leonard S., Ph.D. 311 E. Chicago Ave., Chicago, Ill. *Prof. of Chemistry, Northwestern Univ.* (**2,** 1944)

Foster, G. L., Ph.D. Columbia Univ., College of Physicians and Surgeons, 630 W. 168th St., New York City. *Prof. of Biological Chemistry.* (**2,** 1923)

Foster, Harry E., M.D. Fairmont Hotel, San Francisco, Calif. *Retired Med. Dir., Cutter Labs.* (**6,** 1913)

Foster, Jackson W., Ph.D. Univ. of Texas, Dept. of Bacteriology, Austin 12. *Prof. of Bacteriology.* (**2,** 1946)

Foster, Robert H. K., Ph.D., M.D. St. Louis Univ. School of Medicine, St. Louis, Mo. *Prof. and Dir. of Dept. of Pharmacology.* (**1,** 1940; **3,** 1944)

Fothergill, LeRoy D., M.D. Camp Detrick, Frederick, Md. *Asst. Technical Dir.* (**6,** 1936)

Fowler, Ward S., M.D. Univ. of Pennsylvania, Grad. School of Medicine, Dept. of Physiology and Pharmacology, Philadelphia 4. *Asst. Prof. of Physiology.* (**1,** 1950)

Fox, Sidney W., Ph.D. Iowa State College, Chemistry Dept., Ames. *Prof. of Chemistry; Prof. in charge, Chemistry Section, Iowa Agricultural Exper. Station.* (**2,** 1946)

Fraenkel, Gottfried S., Ph.D. Univ. of Illinois, Urbana. *Prof. of Entomology.* (**5,** 1949)

Fraenkel-Conrat, Heinz, M.D., Ph.D. U. S. Dept. of Agriculture, Western Regional Research Lab., Albany 6, Calif. *Sr. Chemist.* (**2,** 1942)

Francis, Thomas, Jr., M.D. Univ. of Michigan School of Public Health, Ann Arbor. *Henry Sewall Prof. of Epidemiology.* (**4,** 1940; **6,** 1930)

Franke, Florent E., M.D. 9 Sylvester Ave., Webster Groves, Mo. *Asst. Prof. of Physiology, St. Louis Univ. School of Medicine.* (**1,** 1934)

Frankel, Edward M., Ph.D. 214 River Rd., Nyack 9, N. Y. *Consulting Chemist.* (**2,** 1916)

Fraps, R. M., Ph.D. U. S. Dept. of Agriculture, Bureau of Animal Husbandry, Beltsville, Md. *Sr. Physiologist.* (**1,** 1947)

Fraser, Donald T., M.B., D.P.H. Univ. of Toronto, Connaught Labs., Toronto 5, Canada. *Prof. of Hygiene and Preventive Medicine.* (**6,** 1935)

Frear, Donald E. H., Ph.D. Pennsylvania State College, Dept. of Agricultural and Biological

Chemistry, State College. *Prof. of Agricultural and Biological Chemistry.* (**2,** 1946)

Fredette, Victorian. Univ. of Montreal, Montreal, Que., Canada. *Asst. Prof. of Bacteriology; Assoc. Dir., Inst. of Microbiology.* (**6,** 1948)

Free, Alfred H., Ph.D. Miles Labs., Inc., Research Lab., Elkhart, Ind. *Head of Biochemistry Section.* (**2,** 1946; **5,** 1944)

Freeman, Harry, M.D. Worcester State Hospital, Worcester, Mass. *Internist, Research Service.* (**1,** 1939)

Freeman, Leslie Willard, Ph.D., M.D. Univ. of Indiana, Dept. of Surgery, Indianapolis. *Asst. Prof. of Surgery; Dir. of Surgical Research.* (**1,** 1944)

Freeman, Norman E., M.D. Univ. of California Med. School, Dept. of Surgery, San Francisco 22. (**1,** 1936)

Freeman, Smith, M.D., Ph.D. Northwestern Univ. School of Medicine, 303 E. Chicago Ave., Chicago, Ill. *Prof. and Chairman of Dept. of Exper. Medicine.* (**1,** 1937)

French, Cyrus E., Ph.D. Pennsylvania State College, State College. *Assoc. Prof. of Animal Nutrition.* (**5,** 1948)

French, C. Stacy, Ph.D. Carnegie Institution of Washington, Stanford Univ., Calif. *Dir., Div. of Plant Biology.* (**2,** 1946)

Freund, Jules, M.D. Public Health Research Inst. of the City of New York, New York City. *Chief of the Div. of Applied Immunology.* (**6,** 1924)

Frey, Charles N., Ph.D. Standard Brands Inc., 595 Madison Ave. at 57th St., New York City 22. *Dir., Scientific Relations.* (**5,** 1948)

Fried, Josef, Ph.D. Squibb Inst. for Med. Research, New Brunswick, N. J. *Assoc. Member, Div. of Organic Chemistry.* (**2,** 1948)

Friedemann, Theodore E., Ph.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago, Ill. *Assoc. Prof. of Physiology.* (**2,** 1925)

Frieden, Edward H., Ph.D. Harvard Univ., 16 Divinity Ave., Cambridge 38, Mass. *Research Fellow, Dept. of Biology; Instr., Dept. of Biochemistry.* (**2,** 1950)

Friedenwald, Jonas S., M.A., M.D. 1212 Eutaw Place, Baltimore 17, Md. *Assoc. Prof. of Ophthalmology, Johns Hopkins Hospital.* (**1,** 1947)

Friedewald, William F., M.D. Emory Univ. School of Medicine, Atlanta, Ga. *Prof. of Bacteriology; Assoc. Prof. of Medicine.* (**4,** 1941)

Friedgood, Harry B., M.D. Univ. of California, Los Angeles. *Assoc. Clin. Prof. of Medicine; Pres. and Chairman, California Inst. of Cancer Research.* (**1,** 1936)

Friedman, Maurice H., Ph.D., M.D. 2040 Belmont Rd., Washington 9, D. C. (**1,** 1929)

Friedman, Meyer, M.D. Harold Brunn Inst. for Cardiovascular Research, Mt. Zion Hospital, 2200 Post St., San Francisco, Calif. *Director.* (**1,** 1947)

Friedman, M. H. F., Ph.D. Jefferson Med. College of Philadelphia, 1025 Walnut St., Philadelphia, Pa. *Assoc. Prof. of Physiology.* (**1,** 1941)

Friedman, Nathan B., M.D. Cedars of Lebanon Hospital, Div. of Labs., 4833 Fountain Ave., Los Angeles, Calif. *Director.* (**4,** 1942)

Friedman, Sydney M., M.D., Ph.D. Univ. of British Columbia, Vancouver, B.C., Canada. *Prof. of Anatomy.* (**1,** 1947)

Friedman, Townsend B. Children's Memorial Hospital, Chicago, Ill. *Attending Allergist.* (**6,** 1948)

Frost, Douglas Van Anden, Ph.D. Abbott Labs., N. Chicago, Ill. *Head of Nutritional Research.* (**2,** 1946; **5,** 1947)

Fruton, J. S., Ph.D. Yale School of Medicine, 333 Cedar St., New Haven, Conn. *Prof. of Biochemistry.* (**2,** 1938)

Fugo, Nicholas W., Ph.D. Univ. of Chicago, Dept. of Obstetrics and Gynecology, Chicago, Ill. (**3,** 1944)

Fuhrman, Frederick A., Ph.D. Stanford Univ., Stanford Univ., Calif. *Asst. Prof. of Physiology.* (**1,** 1946)

Fulton, George P., Ph.D. Boston Univ., Dept. of Biology, 675 Commonwealth Ave., Boston, Mass. *Asst. Prof.* (**1,** 1950)

Fulton, John Farquhar, Ph.D., M.D. Yale Univ. School of Medicine, New Haven, Conn. *Sterling Prof. of Physiology.* (**1,** 1925)

Funk, Casimir, D.Sc., Ph.D. 186 Riverside Drive, New York City 24. *Emeritus 1949.* (**2,** 1921)

Furchgott, Robert F., Ph.D. Washington Univ. School of Medicine, Euclid Ave. and Kingshighway, St. Louis 10, Mo. *Asst. Prof. of Pharmacology.* (**2,** 1948)

Furth, Jacob, M.D. Oak Ridge Natl. Lab., Oak Ridge, Tenn. *Chief of Pathology Section, Div. of Biology.* (**4,** 1932)

Gaddum, John H., ScD., F.R.S. Univ. of Edinburgh, Edinburgh, Scotland. *Prof. of Pharmacology.* (**3,** 1950)

Gaebler, Oliver H., Ph.D., M.D. Henry Ford Hospital, Detroit, Mich. *Head, Dept. of Biochemistry, Edsel B. Ford Inst. for Med. Research.* (**2,** 1927)

Gaffron, Hans, Ph.D. Univ. of Chicago, Dept. of Chemistry, 5747 Ellis Ave., Chicago 37, Ill. *Assoc. Prof. of Biochemistry; Member, Inst. of Radio-Biology and Biophysics.* (**2,** 1941)

Gagge, Adolf Pharo, Ph.D. Office of The Surgeon General, H.Q., U.S.A.F., Washington, D. C. *Chief, Med. Research Division; Lt. Col., U.S.A.F.* (**1,** 1939)

Galambos, Robert, Ph.D., M.D. Psycho-Acoustic

Lab., Cambridge, Mass. *Research Fellow, Harvard Univ.* (**1,** 1942)

Galdston, Morton, M.D. Goldwater Memorial Hospital, New York Univ. Research Service, Welfare Island, New York City 17. *Instr. in Medicine; Research Assoc.* (**1,** 1950)

Gall, Edward A., M.D. Cincinnati General Hospital, Cincinnati, Ohio. *Mary M. Emery Prof. of Pathology, Univ. of Cincinnati College of Medicine.* (**4,** 1941)

Gallagher, Thomas F., Ph.D. Sloan-Kettering Inst., 444 E. 68th St., New York City 21. *Member.* (**2,** 1932)

Gallup, Willis D., Ph.D. Oklahoma Agricultural and Mechanical College, Stillwater. *Chemist and Prof. of Agricultural Chemistry.* (**2,** 1932)

Gamble, James L., M.D., S.M. 33 Edgehill Rd., Brookline, Mass. *Prof. Emeritus of Pediatrics, Harvard Med. School.* (**2,** 1922; **5,** 1933)

Gantt, W. Horsley, M.D. Johns Hopkins Hospital, Phipps Psychiatric Clinic, Baltimore, Md. *Assoc. in Psychiatry.* (**1,** 1935)

Garbat, Abraham L., M.D. 103 E. 78th St., New York City. *Dir., Med. Service, Lenox Hill Hospital; Clin. Prof. of Medicine, New York Univ. Med. School.* (**6,** 1913)

Gardner, Ernest, M.D. Wayne Univ. College of Medicine, 1512 St. Antoine St., Detroit 26, Mich. *Asst. Prof. of Anatomy.* (**1,** 1949)

Garner, Raymond L., Ph.D. Univ. of Michigan Med. School, 218 W. Med. Bldg., Ann Arbor. *Asst. Prof. of Biological Chemistry.* (**2,** 1947)

Garrey, Walter Eugene, Ph.D., M.D. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Prof. Emeritus of Physiology.* (**1R,** 1910; **2,** 1906)

Gasser, Herbert S., A.M., M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Dir. of Labs.* (**1,** 1915; **3,** 1924)

Gassner, Frank X., M.S., D.V.M. Colorado A and M College, Fort Collins. *Prof. of Endocrine Research, Colorado State Exper. Station.* (**1,** 1947)

Gates, Olive, M.D. Harvard Med. School, 25 Shattuck St., Boston, Mass. *Assoc. Pathologist.* (**4,** 1940)

Gaunt, Robert, Ph.D. Syracuse Univ., Syracuse, N. Y. *Prof. and Chairman of Dept. of Zoology.* (**1,** 1939)

Gay, Leslie N., M.D. 1114 St. Paul St., Baltimore, Md. *Dir. of Allergy Clinic, Johns Hopkins Hospital; Assoc. Prof. of Medicine, Johns Hopkins Univ.* (**6,** 1927)

Geiger, Ernest, Ph.D. 3842 Monteith Dr., Los Angeles 43, Calif. *Prof. of Pharmacology and Toxicology, Univ. of Southern California Med. School, Los Angeles; Advisor in Nutrition, Van Camp Seafood Co., Terminal Island.* (**5,** 1950)

Geiling, E. M. K., M.D., Ph.D. Univ. of Chicago, Chicago 37, Ill. *Chairman of Dept. of Pharmacology.* (**1,** 1933; **2,** 1927; **3,** 1925)

Gelfan, Samuel, Ph.D. Yale Univ. School of Medicine, 333 Cedar St., New Haven 11, Conn. *Assoc. Prof. of Physiology; Dir., Aero-Med. Research Unit.* (**1,** 1930)

Gellhorn, Alfred, M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Clin. Cancer Research, Dept. of Medicine.* (**3,** 1946)

Gellhorn, Ernst, M.D., Ph.D. Univ. of Minnesota, Room 116, Med. Sciences, Minneapolis. *Prof. of Neurophysiology.* (**1,** 1930)

Gemmill, Chalmers L., M.D. Univ. of Virginia Med. School, Charlottesville. *Prof. of Pharmacology.* (**1,** 1928; **2,** 1935; **3,** 1946)

Gerard, R. W., Ph.D., M.D. Univ. of Chicago, Chicago, Ill. *Prof. of Physiology.* (**1,** 1927)

Gerheim, Earl B., Ph.D. Univ. of Detroit, Div. of Basic Sciences, 630 E. Jefferson, Detroit 26, Mich. *Asst. Prof.* (**1,** 1950; **6,** 1950)

Gersh, Isadore, Ph.D. Univ. of Chicago, Chicago 37, Ill. *Assoc. Prof. of Anatomy.* (**4,** 1947)

Gerstenberger, Henry John, M.D. Western Reserve Univ. School of Medicine, Cleveland, Ohio. *Prof. Emeritus of Pediatrics; Dir. of Pediatrics, Babies and Children's Hospital.* (**5R,** 1938)

Gesell, Robert, M.D. Univ. of Michigan, Ann Arbor. *Prof. of Physiology.* (**1,** 1913)

Gettler, Alexander O., Ph.D. New York Univ., 29 Washington Square, New York City. *Prof. of Chemistry and Toxicology; Toxicologist to Chief Med. Examiner's Office.* (**2,** 1916)

Gey, George Otto, M.D. Johns Hopkins Univ., Baltimore, Md. *Instr. in Surgery.* (**1,** 1940)

Geyer, Robert P., Ph.D. Harvard School of Public Health, Dept. of Nutrition, Boston, Mass. *Asst. Prof.* (**5,** 1950)

Gibbard, J., M.Sc. Dept. of Natl. Health and Welfare, Ottawa, Ont., Canada. *Chief, Lab. of Hygiene.* (**6,** 1946)

Gibbs, Frederick Andrews, M.D. 720 N. Michigan Ave., Suite 610. Chicago, Ill. (**1,** 1935)

Gibbs, Owen Stanley, M.D. P. O. Box 5387, Whitehaven, Memphis 16, Tenn. *Dir., Gibbs Med. Research Lab.* (**3,** 1930)

Gibson, Robert Banks, Ph.D. Univ. Hospital, Iowa City, Iowa. *Assoc. Prof. of Biochemistry, State Univ. of Iowa.* (**2,** 1906)

Gies, William John, Ph.D. Columbia Univ., 632 W. 168th St., New York City. *Prof. of Biological Chemistry.* (**1R,** 1898; **2,** 1906; **3R,** 1909)

Gilman, Alfred, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Pharmacology.* (**1,** 1935; **3,** 1934)

Gilson, Arthur S., Jr., Ph.D. Washington Univ. Med. School, St. Louis, Mo. *Assoc. Prof. of Physiology.* (**1,** 1927)

Githens, Thomas S., M.D. The Cambridge-Alden

Park, Wissahickon and School Lane, Germantown, Philadelphia, Pa. (**1R,** 1915)

Givens, Maurice H., Ph.D. Box 5116, Biltmore, N. C. (**1,** 1917; **2,** 1915)

Gjessing, Erland C., Ph.D. Univ. of Virginia, Box 1062, Univ. Station, Charlottesville. *Asst. Prof. of Biochemistry.* (**2,** 1948)

Glaser, O. C., Ph.D. Amherst College, Amherst Mass. *Prof. Emeritus of Biology.* (**1R,** 1913)

Glass, Howard G., Ph.D. 514 Wesley Ave., Oak Park, Ill. (**3,** 1947)

Glazko, Anthony J., Ph.D. Parke, Davis and Co., Research Labs., Detroit 32, Mich. *Research Biochemist.* (**1,** 1942)

Glick, David, Ph.D. Univ. of Minnesota, 225 Med. Sciences Bldg., Minneapolis 14. *Prof. of Physiological Chemistry.* (**2,** 1936)

Glickman, Nathaniel, M.S. 8239 Abbot Ave., Miami Beach, Fla. (**1,** 1947)

Gochenour, William S., Jr., V.M.D. Army Med. Center, A.M.D.R.G.S., Veterinary Div., Washington 12, D. C. *Chief, Dept. of Veterinary Bacteriology.* (**6,** 1950)

Goebel, Walther F., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Member.* (**2,** 1929; **6,** 1937)

Goettsch, Marianne, Ph.D. Univ. of Puerto Rico Med. School, San Juan. *Asst. Prof. of Biochemistry and Nutrition.* (**2,** 1933; **5,** 1941)

Goetzl, Franz R., Ph.D., M.D. Permanente Foundation, Dept. of Med. Research, Oakland 11, Calif. *Director.* (**1,** 1947)

Gold, Harry, M.D. Cornell Univ. Med. College, New York City. *Prof. of Clin. Pharmacology;* (**3,** 1927)

Goldblatt, Harry, M.D. Cedars of Lebanon Hospital, Los Angeles, Calif. *Dir., Inst. for Med. Research.* (**1,** 1945; **4,** 1927)

Golden, Alfred, M.D. Veterans Admin. Hosp., Buffalo, N. Y. *Chief of Lab. Service; Lecturer in Pathology, Univ. of Buffalo School of Medicine.* (**4,** 1947)

Goldfarb, Walter, M.D. 25 E. 86th St., New York City. (**1,** 1938)

Goldfeder, Anna., D.Sc. 444 E. 52nd St., New York City 22. *Sr. Biologist in Charge of Cancer Research, Dept. of Hospitals, City of New York; Research Assoc., Dept. of Biology, New York Univ.* (**1,** 1950)

Goldforb, A. J., Ph.D. College of the City of New York, New York City. *Prof. of Biology.* (**1,** 1930)

Goldie, Horace, M.D., D.T.M. 7910 Lynnbrook Drive, Bethesda, Md. *Research Immunologist, Natl. Cancer Inst.* (**6,** 1943)

Goldring, William, M.D. New York Univ. College of Medicine, 477 First Ave., New York City. *Assoc. Prof. of Medicine.* (**1,** 1939)

Goldschmidt, Samuel, Ph.D. Univ. of Pennsylvania Med. School, Philadelphia. *Prof. of Physiology.* (**1,** 1919; **2,** 1915)

Goldsmith, E. D., Ph.D. New York Univ., 477 First Ave., New York City 16. *Assoc. Prof. of Anatomy, Grad. School of Arts and Sciences; Assoc. Prof. of Histology and Research Coordinator, College of Dentistry.* (**1,** 1950)

Goldsmith, Grace A., M.D. Tulane Univ. of Louisiana, New Orleans. *Asst. Prof. of Medicine.* (**5,** 1943)

Goldstein, Avram, M.D. Harvard Med. School, Boston, Mass. *Assoc. in Pharmacology.* (**3,** 1948)

Gollan, Frank, M.D. Antioch College, Fels Research Inst., Fels House, Yellow Springs, Ohio. *Assoc. Prof. of Physiology.* (**1,** 1950)

Golub, Orville Joseph, Ph.D. Bio-Service Labs., Inc., 10717 Venice Blvd., Los Angeles 24, Calif. *Associate.* (**6,** 1944)

Gomori, George, M.D., Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Medicine.* (**4,** 1948)

Goodale, Walter T., M.D. 79 Webster Rd., Weston 93, Mass. *Research Fellow, Harvard Med. School; Asst. in Medicine, Peter Bent Brigham Hospital.* (**1,** 1949)

Goodman, Louis Sanford, M.S., M.D. Univ. of Utah School of Medicine, Salt Lake City. *Prof. of Pharmacology and Chairman of Dept. of Pharmacology.* (**1,** 1946; **3,** 1937)

Goodner, Kenneth, Ph.D. Jefferson Med. College, Philadelphia, Pennsylvania. *Prof. of Bacteriology.* (**6,** 1932)

Goodpasture, Ernest William, M.D. Vanderbilt Univ. Med. School, Nashville, Tenn. *Prof. of Pathology and Dean.* (**4,** 1923)

Gordon, Albert S., Ph.D. New York Univ., Washington Square College of Arts and Sciences, New York City. *Assoc. Prof. of Biology.* (**1,** 1942)

Gordon, Francis B., M.D. Camp Detrick; Chemical Corps, Biology Dept., Frederick, Md. *Chief of MV Div.* (**4,** 1947)

Gordon, Harry H., M.D. 4200 E. 9th Ave., Denver, Colo. *Prof. of Pediatrics, Univ. of Colorado Med. School; Pediatrician in Chief, Colorado Gen. Hospital.* (**5,** 1940)

Gordon, Irving, M.D. New York State Dept. of Health, Div. of Labs and Research, New Scotland Ave., Albany 1. *Assoc. Med. Bacteriologist; Assoc. Prof. of Medicine and Bacteriology, Albany Med. College.* (**6,** 1943)

Gordon, William G., Ph.D. U. S. Dept. of Agriculture, Eastern Regional Research Lab., Philadelphia 18, Pa. *Sr. Chemist.* (**2,** 1939)

Gortner, Ross Aiken, Jr., Ph.D. Wesleyan Univ., Shanklin Lab., Middletown, Conn. *Assoc. Prof. of Biochemistry.* (**5,** 1947)

Gortner, Willis A., Ph.D. Pineapple Research Inst. of Hawaii, Honolulu, T. H. *Head of Dept. of Chemistry.* (**2,** 1947)

Goss, Harold, Ph.D. Univ. of California College of Agriculture, Davis. *Prof. of Animal Husbandry.* (**2,** 1936; **5,** 1933)

Goth, Andres, M.D. Southwestern Med. College, 2211 Oak Lawn Ave., Dallas 4, Tex. *Assoc. Prof. of Pharmacology.* (**3,** 1947)

Gottschall, Russell Y., Ph.D. Michigan Dept. of Health, Bureau of Labs., Lansing. *Bacteriologist.* (**6,** 1939)

Goudsmit, Arnoldus, Jr., M.D., Ph.D. 4141 Windsor Rd., Youngstown 7, Ohio. (**1,** 1940)

Gould, R. Gordon, Ph.D. Presbyterian Hospital, 1753 W. Congress St., Chicago 12, Ill. *Assoc. Attending Biochemist; Assoc. Prof. of Biological Chemistry, Univ. of Illinois College of Medicine.* (**2,** 1949)

Govier, William M., M.D. Upjohn Co., Research Div., Kalamazoo 99, Mich. *Sr. Pharmacologist.* (**3,** 1944)

Gowdey, Charles W., Ph.D. Univ. of Western Ontario Med. School, Dept. of Pharmacology, London, Ontario, Canada. *Asst. Prof.* (**3,** 1950)

Grabfield, G. Philip, M.D. 27 Forest St., Milton, Mass. *Retired.* (**3,** 1923)

Grady, Hugh G., M.D. Armed Forces Inst. of Pathology, Washington, D. C. *Scientific Dir., American Registry of Pathology.* (**4,** 1940)

Graef, Irving, M.D. New York Univ. College of Medicine, New York City. *Asst. Prof. of Clin. Medicine.* (**4,** 1941)

Graham, Claire E., Ph.D. Wilson Labs., 4221 S. Western Ave., Chicago, Ill. *Dir. of Research.* (**2,** 1948)

Graham, Clarence H., Ph.D. Columbia Univ., New York City 27. *Prof. of Psychology.* (**1,** 1933)

Graham, Helen Tredway, Ph.D. Euclid Ave. and Kingshighway, St. Louis, Mo. *Assoc. Prof. of Pharmacology, Washington Univ. School of Medicine.* (**1,** 1933; **3,** 1931)

Granick, S., Ph.D. Rockefeller Inst. for Med. Research, York Ave. at 66th St., New York City 21. *Associate, Physical Chemistry.* (**2,** 1949)

Grant, E. Rhoda, Ph.D. Univ. of Illinois Med. College, Clinical Science Dept., 1853 West Polk St., Chicago 12, Ill. *Researcher in Clin. Science.* (**1,** 1949)

Grant, R. Lorimer, Ph.D. Federal Security Agency, Food and Drug Admin., Div. of Pharmacology, Washington 25, D. C. *Pharmacologist.* (**2,** 1938)

Grant, Ronald, Ph.D. Stanford Univ., Dept. of Physiology, Stanford, Calif. *Asst. Prof. (Acting).* (**1,** 1950)

Grant, Wilson Clark, Ph.D. Columbia Univ., College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Asst. Prof. of Physiology.* (**1** 1949)

Grau, Charles R., Ph.D. Univ. of California, Div. of Poultry Husbandry, Berkeley 4. *Asst. Prof. of Poultry Husbandry and Asst. Poultry Husbandman in Exper. Station.* (**5,** 1949)

Graubard, Mark, Ph.D. Univ. of Minnesota, Dept. of Physiology, Minneapolis. (**1,** 1940)

Grauer, Robert C., M.D. Allegheny General Hospital, Pittsburgh, Pa. *Dir. of William H. Singer Memorial Research Lab.; Asst. Prof. of Medicine, School of Medicine, Univ. of Pittsburgh.* (**4,** 1941)

Gray, John S., Ph.D., M.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago 11, Ill. *Prof. and Chairman of Dept. of Physiology.* (**1,** 1937)

Gray, M. Geneva, Ph.D. Labs. of Arthur D. Little Inc., Cambridge, Mass. *Dir.; Lab. of Industrial Toxicity.* (**3,** 1946)

Gray, Stephen W., Ph.D. Emory Univ. School of Medicine, Emory Univ., Ga. *Asst. Prof. of Anatomy.* (**1,** 1948)

Graybiel, Ashton, M.D. U. S. Naval School of Aviation Medicine and Research, Naval Air Station, Pensacola, Fla. *Coordinator of Research.* (**1,** 1948)

Greaves, J. D., Ph.D. U. S. Dept. of Agriculture, Western Regional Research Lab., 800 Buchanan St., Albany 6, Calif. *Biochemist.* (**2,** 1938)

Greaves, Joseph E., Ph.D. 3211 S. W. 10th Ave., Portland 1, Ore. (**2,** 1940)

Greeley, Paul O., Ph.D., M.D. Univ. of Southern California Med. School, Univ. Park, Los Angeles. *Dir., Student Health Service.* (**1,** 1940)

Green, Arda Alden, M.D. Cleveland Clinic, Research Div., Euclid and E. 93rd St., Cleveland 6, Ohio. (**2,** 1932)

Green, Daniel M., M.D. G. D. Searle Co., Chicago 80, Ill. *Dir. of Biological Research.* (**1,** 1948; **3,** 1942)

Green, David E., Ph.D. Univ. of Wisconsin, Enzyme Inst., P.O. Box 2066 Madison 5. *Prof. of Enzyme Chemistry.* (**2,** 1941)

Green, Harold David, M.D. Wake Forest College, Bowman Gray School of Medicine, Winston-Salem 7, N. C. *Prof. and Dir. of Dept. of Physiology and Pharmacology.* (**1,** 1936; **3,** 1945)

Green, Robert Holt. Yale Univ. School of Medicine, 333 Cedar St., New Haven, Conn. *Asst. Prof. of Medicine.* (**6,** 1949)

Greenberg, David Morris, Ph.D. Univ. of California, Berkeley 4. *Prof. and Chairman, Div. of Biochemistry.* (**2,** 1927; **5,** 1946)

Greenberg, Louis D., Ph.D. Univ. of California Med. Center, 3rd and Parnassus Aves., San Francisco 22. *Assoc. Prof. of Pathology, Univ. of California Med. School.* (**2,** 1946)

Greenberg, Ruven, Ph.D. Univ. of Texas Med. Branch, Dept. of Physiology, Galveston. *Asst. Prof.* (**1,** 1950)

Greene, Carl Hartley, Ph.D., M.D. 401 Clinton Ave., Brooklyn 5, N. Y. *Assoc. Prof. of Clin.*

Medicine, New York Univ. Post-Grad. Med. School. (**1**, 1921; **2**, 1922; **4**, 1924)

Greene, Harry S. N., M.D., C.M. Yale Univ. School of Medicine, Dept. of Pathology, New Haven, Conn. *Anthony N. Brady Prof. of Pathology.* (**4**, 1937)

Greene, James Alexander, M.D. Baylor Univ. College of Medicine, Buffalo Drive, Houston, Tex. *Prof. and Chairman of Dept. of Internal Medicine and Dean of Clin. Faculty.* (**1**, 1939)

Greene, Ronald R., M.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago, Ill. *Instr. in Physiology; Instr. in Obstetrics and Gynecology.* (**1**, 1941)

Greengard, Harry, Ph.D., M.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago, Ill. *Asst. Prof. of Physiology.* (**1**, 1939)

Greenstein, Jesse P., Ph.D. Natl. Cancer Inst., Bethesda, Md. *Chief Biochemist.* (**2**, 1935)

Greenwald, Isidor, Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City. *Prof. of Chemistry.* (**2**, 1912; **5**, 1933)

Greenwood, Delbert A., Ph.D. Utah State Agricultural College, Box 163, Logan. *Prof. of Biochemistry.* (**3**, 1950)

Greep, Roy O., Ph.D. Harvard School of Dental Medicine, 25 Shattuck St., Boston 15, Mass. *Assoc. Prof. of Dental Science.* (**1**, 1940)

Greer, C. M., M.S. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Instr. in Chemistry.* (**3**, 1938)

Gregersen, Magnus I., Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Physiology.* (**1**, 1933)

Gregg, Donald Eaton, Ph.D., M.D. Army Med. Dept., Research and Grad. School, Army Med. Center, Washington 12, D. C. (**1**, 1933)

Gregory, John E., Hahnemann Med. College, Philadelphia, Pa. *Prof. of Pathology.* (**6**, 1948)

Gregory, Raymond L., Ph.D., M.D. Univ. of Texas School of Medicine, 1419 24th St., Galveston. *Prof. of Medicine.* (**1**, 1945)

Greig, Margaret E., Ph.D. Vanderbilt Univ. School of Medicine, Nashville 4, Tenn. *Assoc. Prof. in Pharmacology.* (**3**, 1946)

Greisheimer, Esther M., Ph.D. M.D. Temple Univ. Med. School, 3400 N. Broad St., Philadelphia, Pa. *Prof. of Physiology.* (**1**, 1925)

Grenell, Robert G., Ph.D. Johns Hopkins Univ., Dept. of Biophysics, Baltimore, Md. (**1**, 1945)

Griffin, A. Clark, Ph.D. Stanford Univ., Dept. of Biochemistry, Stanford, Calif. *Asst. Prof.* (**2**, 1950)

Griffin, Angus, Ph.D. George Washington Univ. School of Medicine, 1335 H St., N. W., Washington, D. C. *Assoc. Prof. of Bacteriology.* (**6**, 1940)

Griffith, Fred R., Jr., Ph.D. Univ. of Buffalo Med. School, 24 High St., Buffalo, N. Y. *Prof. of Physiology.* (**1**, 1923; **5**, 1933)

Griffith, Wendell H., Ph.D. Univ. of Texas Med. School, Galveston. *Prof. and Chairman of Dept. of Biochemistry and Nutrition.* (**2**, 1923; **5**, 1934)

Grimson, Keith S., M.D. Duke Univ. School of Medicine, Durham, N. C. *Prof. of Surgery.* (**1**, 1943; **3**, 1949)

Grindlay, John H., M.D. Mayo Clinic, Rochester, Minn. (**1**, 1945)

Groat, Richard A., Ph.D. Wake Forest College, Bowman Gray School of Medicine, Winston-Salem 7, N. C. *Assoc. Prof. of Anatomy.* (**1**, 1945)

Grodins, Fred S., Ph.D., M.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago 11, Ill. *Assoc. Prof. of Physiology.* (**1**, 1945)

Groedel, Franz M., M.D. 829 Park Ave., New York City. *Research Fellow, Fordham Univ., Biology Dept.* (**1**, 1949)

Grollman, Arthur, M.D., Ph.D. Southwestern Med. College, 2211 Oak Lawn Ave., Dallas, Tex. *Prof. of Pharmacology and Medicine.* (**1**, 1928; **3**, 1933)

Gross, Erwin G., Ph.D., M.D. State Univ. of Iowa, Med. Labs., Iowa City. *Prof. of Pharmacology.* (**1**, 1927; **2**, 1923; **3**, 1927)

Gross, J., M.D., C.M., Ph.D. Natl. Inst. for Med. Research, The Ridgeway, Mill Hill, London, N.W. 7, England. (**1**, 1950)

Gross, Robert E., M.D. Children's Hosp., 300 Longwood Ave., Boston 15, Mass. *Surgeon-in-Chief; Ladd Prof. of Children's Surgery, Harvard Med. School.* (**4**, 1940)

Grossman, Morton Irvin, Ph.D., M.D. Univ. of Illinois College of Medicine, Chicago 12. *Assoc. Prof. of Physiology.* (**1**, 1946)

Groupé, Vincent, Ph.D. Rutgers Univ., Dept. of Microbiology, New Jersey Agricultural Exper. Station, New Brunswick. *Assoc. Prof. in Animal Diseases.* (**6**, 1946)

Grubbs, Robert C., M.Sc., M.D. Ohio State Univ., Columbus. *Assoc. Prof. of Physiology.* (**1**, 1950)

Gruber, Charles M., M.D., Ph.D. Jefferson Med. College, 1025 Walnut St., Philadelphia, Pa. *Prof. of Pharmacology,* (**1**, 1914; **3**, 1919)

Gruber, Charles M., Jr., M.D. Jefferson Med. College Hospital, Philadelphia, Pa. *Assoc. Prof. of Pharmacology.* (**3**, 1948)

Gruhzit, Oswald M., M.D. Parke, Davis and Co., Research Labs., Detroit, Mich. *Research in Pathology and Pharmacology.* (**4**, 1928)

Grundfest, Harry, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. in Neurology.* (**1**, 1932)

Gudernatsch, F., Ph.D. 41 Fifth Ave., New York City 3. (**1**, 1930)

Guerra, Francisco, M.Sc., M.D. Facultad de Medicina, Univ. Nacional de Mexico, Mexico, D. F. *Prof. of Pharmacology.* (**3**, 1947)

Guerrant, N. B., Ph.D. Pennsylvania State College, State College. *Prof. of Biological Chemistry* (**2,** 1934; **5,** 1933)

Guest, George Martin, M.S., M.D. Children's Hospital, Cincinnati 29, Ohio. *Prof. of Pediatrics, Univ. of Cincinnati College of Medicine and Grad. School.* (**2,** 1933)

Guest, Maurice Mason, Ph.D. Wayne Univ. College of Medicine, Detroit 26, Mich. *Assoc. Prof. of Physiology.* (**1,** 1946)

Gulick, Addison, Ph.D. 308 Westmount Ave., Columbia, Mo. *Prof. of Physiological Chemistry, Univ. of Missouri.* (**1,** 1915; **5,** 1933)

Gunn, Francis D., M.D., Ph.D. Univ. of Utah School of Medicine, Salt Lake City. *Prof. and Head of Dept. of Pathology.* (**4,** 1938)

Gunsalus, Irwin C., Ph.D. Univ. of Illinois, 362 Noyes Lab., Urbana. *Prof. of Bacteriology.* (**2,** 1946)

Gurin, Samuel, Ph.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Prof. of Physiological Chemistry.* (**2,** 1938)

Gustavson, R. G., Ph.D. Univ. of Nebraska, Lincoln. *Chancellor.* (**2,** 1927)

Gustus, Edwin L., Ph.D. Bjorksten Research Lab., 13791 Ave. O, Chicago 33, Ill. *Vice President.* (**2,** 1934)

Guterman, Henry S., M.D. Michael Reese Hospital, Chicago 16, Ill. *Asst. Dir., Dept. of Metabolic and Endocrine Research* (**1,** 1949)

Guthrie, Charles Claude, M.D., Ph.D. Univ. of Pittsburgh Med. School, Pittsburgh, Pa. *Prof. of Physiology and Pharmacology* (**1,** 1905; **3,** 1909)

Gutman, Alexander B., M.D. Columbia Research Service, Welfare Island, New York City 17. *Director.* (**2,** 1947)

Guttman, Rita M., Ph.D. Brooklyn College, Brooklyn, N. Y. *Asst. Prof. of Physiology.* (**1,** 1946)

Guyton, Arthur C., M.D. Univ. of Mississippi School of Medicine, Dept. of Physiology, University. *Chairman, Dept. of Physiology.* (**1,** 1949)

György, Paul, M.D. Univ. of Pennsylvania School of Medicine, 3400 Spruce St. Philadelphia 4. *Prof. of Nutrition.* (**2,** 1938; **5,** 1939)

Haag, Harvey B., M.D. Med. College of Virginia, Richmond. *Prof. of Pharmacology.* (**3,** 1934)

Haag, J. R., Ph.D. Oregon Agricultural Exper. Station, Corvallis. *Chemist.* (**2,** 1947; **5,** 1941)

Haas, Erwin, Ph.D. Cedars of Lebanon Hospital, Inst. for Med. Research, 4751 Fountain Ave., Los Angeles 27, Calif. *Asst. Dir.* (**2,** 1946)

Haberman, Sol, Ph.D. Wm. Buchanan Blood, Plasma and Serum Center, Baylor Hospital, Dallas, Tex. *Chief of Bacteriology and Serology Services.* (**6,** 1944)

Hadidian, Zareh, Ph.D. Tufts College Med. School, Boston, Mass. (**1,** 1945)

Hadley, Philip B., Ph.D. Western Pennsylvania Hospital, Inst. of Pathology, Pittsburgh. *Chief of Bacteriological Service and Research Bacteriologist.* (**4R,** 1927)

Hafkenschiel, Joseph H., Jr., M.D. 1458 Hampstead Rd., Philadelphia 31, Pa. *Instr. in Medicine, Univ. of Pennsylvania School of Medicine.* (**1,** 1950)

Hafkesbring, H. Roberta, Ph.D. Woman's Med. College of Pennsylvania, East Falls, Philadelphia. *Prof. of Physiology.* (**1,** 1931)

Haggard, Howard W., M.D. 4 Hillhouse Ave., New Haven, Conn. *Dir. of Lab. of Applied Physiology, Yale Univ.* (**1,** 1919; **2,** 1920)

Hahn, Paul F., Ph.D. Meharry Med. College, Nashville, Tenn. *Dir. of Cancer Research Labs.; Prof. of Exper. Oncology.* (**1,** 1946; **4,** 1939)

Haig, Charles, Ph.D. New York Med. College, Fifth Ave. at 105th St., New York City. *Assoc. Prof. of Physiology and Biochemistry.* (**1,** 1942)

Haimovici, Henry, M.D., 1148 Fifth Ave., New York City 28. *Assoc. Attending Surgeon, Montefiore Hospital.* (**1,** 1950)

Haist, Reginald E., M.D., Ph.D. Univ. of Toronto, Toronto, Ontario, Canada. *Prof. of Physiology.* (**1,** 1943)

Halbert, Seymour P., M.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Ophthalmology, 630 W. 168th St., New York City 32. (**6,** 1947)

Haldi, John, Ph.D. Emory Univ. School of Dentistry, Emory University, Ga. *Prof. of Physiology.* (**1,** 1928)

Hale, Wm. M., M.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Head, Div. of Bacteriology and Virology; Bacteriologist-in-Chief, Brookhaven Natl. Lab. Hosp.* (**4,** 1941; **6,** 1935)

Hale, Worth, M.D. Antrim, N. H. *Retired.* (**1R,** 1908; **3R,** 1908)

Haley, Thomas J., Ph.D. 12007 Thermo St., Los Angeles 34, Calif. *Chief, Div. of Pharmacology and Toxicology, A. E. Project, Med. School, Univ. of California.* (**3,** 1949)

Hall, Charles E., Ph.D. Univ. of Texas, Med. Branch, Dept. of Physiology, Galveston. *Asst. Prof.* (**1,** 1949)

Hall, F. G., Ph.D. Duke Univ. School of Medicine, Dept. of Physiology and Pharmacology, Durham, N.C. (**1,** 1937)

Hall, George Edward, M.D., Ph.D. Univ. of Western Ontario, Ottaway Ave. and Waterloo St., London, Ontario, Canada. *Dean of the Faculty of Medicine.* (**1,** 1938)

Hall, Victor E., M.A., M.D. Stanford Univ., Stanford University, Calif. *Prof. of Physiology.* (**1,** 1934)

Hall, W. Knowlton, Ph.D. Med. College of Georgia, Univ. Place, Augusta. *Assoc. Prof. of Biochemistry.* (**2,** 1948)

Hallenbeck, George Aaron, Ph.D., M.D. Mayo Clinic, Rochester, Minn. *Research Assoc.* (**1,** 1946)

Halliday, Nellie, Ph.D. Univ. of California School of Medicine, Room 307, Hooper Fndn., San Francisco. (**5,** 1933)

Halpert, Béla, M.D. Veterans Admin. Hospital, 2002 Holcombe Blvd., Houston 4, Texas. *Chief, Lab. Service; Assoc. Prof. of Pathology, Baylor Univ. College of Medicine.* (**4,** 1936)

Halsey, John T., M.D. P. O. Box 264, Waveland, Miss. *Prof. Emeritus of Pharmacology, Tulane Univ.* (**3R,** 1929)

Halstead, Ward C., Ph.D., Univ. of Chicago, Dept. of Medicine, Chicago, Ill. *Assoc. Prof. of Exper. Psychology, Div. of Psychiatry.* (**1,** 1942)

Ham, Arthur W., M.B. Univ. of Toronto, Toronto 5, Ontario, Canada. *Prof. of Anatomy in charge of Histology.* (**4,** 1939)

Hambourger, Walter E., Ph.D., M.D. G. D. Searle and Co., P.O. Box 5110, Chicago, Ill. *Chief Pharmacologist.* (**3,** 1934)

Hamilton, Bengt L. K., M.D. U.S. Marine Hospital, Staten Island 4, N.Y. *Med. Dir., USPHS.* (**2,** 1925)

Hamilton, James B., Ph.D. Long Island College of Medicine, Dept. of Anatomy, 350 Henry St., Brooklyn 2, N.Y. (**1,** 1938)

Hamilton, Paul B., M.D., Ph.D. Alfred I. duPont Inst., Nemours Foundation, Rockland Rd., Wilmington 99, Del. *Chief of Biochemistry.* (**2,** 1946)

Hamilton, Tom R., M.S., M.D. Kansas Univ. Med. Center, Kansas City 3. *Prof. of Microbiology and Pathology.* (**4,** 1950)

Hamilton, Tom S., Ph.D. Univ. of Illinois, 1513 W. Clark St., Champaign. *Prof. and Chief in Animal Nutrition.* (**2,** 1937; **5,** 1938)

Hamilton, W. F., Ph.D. Medical College of Georgia, Augusta. *Prof. of Physiology.* (**1,** 1924)

Hammett, Frederick S., Ph.D. 493 Commercial St., Provincetown, Mass. *Sr. Member Emeritus, Lakenau Hospital Research Inst.* (**1R,** 1920; **2,** 1917)

Hammon, William McD., M.D., D.P.H. Univ. of Pittsburgh, Pittsburgh, Pa. *Prof. of Epidemiology; Grad. School of Public Health.* (**4,** 1944; **6,** 1946)

Hampel, C. W., Ph.D. New York Univ.-Bellevue Medical Center, New York City. *Assoc. Prof. of Physiology.* (**1,** 1936)

Hamre, Dorothy, Ph.D. Squibb Inst. for Med. Research, New Brunswick, N. J. *Research Assoc.* (**6,** 1948)

Hand, David B., Ph.D. New York State Agricultural Exper. Station, Geneva. *Head, Div. of Food Science and Technology and Prof. of Biochemistry.* (**2,** 1947)

Handler, Philip, Ph.D. Duke Univ. School of Medicine, Durham, N. C. *Prof. of Biochemistry and Nutrition.* (**2,** 1944; **5,** 1946)

Handley, Carroll A., Ph.D. Baylor Univ. College of Medicine, 1200 M.D. Anderson Blvd., Houston 5, Tex. *Prof. and Chairman of Dept. of Pharmacology.* (**3,** 1942)

Haney, Hance F., Ph.D., M.D. Univ. of Oregon Med. School, Portland. *Asst. Prof. of Medicine.* (**1,** 1939)

Hanger, Franklin, M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Medicine.* (**6,** 1930)

Hanke, Martin E., Ph.D. Univ. of Chicago, Chicago, Ill. *Assoc. Prof. of Biochemistry.* (**2,** 1925)

Hanke, Milton Theo, Ph.D. 7550 S. Green St., Chicago, Ill. *Research Consultant, Biochemistry and Nutrition.* (**2,** 1919)

Hanks, John H., Ph.D. Harvard Univ. Med. School, Boston, Mass. *Dept. of Bacteriology; Bacteriologist of the Leonard Wood Memorial.* (**6,** 1935)

Hansen, Arild E., M.D. Univ. of Texas Med. School, Galveston. *Prof. and Chairman of Dept. of Pediatrics; Dir. of Univ. of Texas Child Health Program.* (**4,** 1941; **5,** 1942)

Hanzlik, Paul J., M.D. 303 Franklin St., San Mateo, Calif. *Prof. Emeritus of Pharmacology, Stanford Univ.* (**1R,** 1912; **3R,** 1912)

Hardy, James Daniel, Ph.D. Russell Sage Inst. of Pathology, 525 E. 68th St., New York City. *Research Assoc.* (**1,** 1939)

Hardy, Mary, D.Sc. The Brearley School, 610 E. 83rd St., New York City. *Teacher of Science.* (**1,** 1933)

Hare, Kendrick, Ph.D. Children's Hospital, 219 Bryant St., Buffalo 9, N. Y. (**1,** 1938)

Harford, Carl G., M.D. Washington Univ. School of Medicine, St. Louis, Mo. *Asst. Prof. of Medicine and Preventive Medicine.* (**6,** 1948)

Harger, R. N., Ph.D. Indiana Univ. School of Medicine, Indianapolis. *Prof. of Biochemistry and Toxicology; Chairman, Dept. of Biochemistry and Pharmacology.* (**2,** 1938; **3,** 1949)

Harkins, Henry N., Ph.D., M.D. Univ. of Washington School of Medicine, Seattle 5. (**1,** 1942)

Harmon, Paul M., Ph.D. Indiana Univ., Bloomington. *Prof. of Physiology.* (**1,** 1930)

Harne, O. G. Univ. of Maryland School of Medicine, Baltimore. *Assoc. Prof. of Anatomy; Asst. to the Dean.* (**1,** 1935)

Harned, Ben King, Ph.D. Lederle Labs., Pearl River, N. Y. *Assoc. Dir., Pharmacology Research.* (**2,** 1931; **3,** 1941)

Harris, Albert H., M.D. N. Y. State Dept. of Health, Div. of Labs. and Research, New Scotland Ave., Albany 1. *Asst. Dir. for Local Labs.* (**6,** 1937)

Harris, Albert Sidney, Ph.D. Baylor Univ. College of Medicine, Houston 5, Texas. (**1,** 1939)

Harris, Milton, Ph.D. Harris Research Labs., 1246 Taylor St., N.W., Washington 11, D. C. *President.* (**2,** 1939)

Harris, Paul N., M.D. Eli Lilly and Company, Indianapolis, Ind. *Pathologist, Div. of Pharmacology.* (**3,** 1948)

Harris, Philip L., Ph.D. Distillation Products, Inc., 755 Ridge Rd. W., Rochester 13, N. Y. *Head of Biochemistry Research Dept.; Assoc. in Physiology, Univ. of Rochester School of Medicine and Dentistry.* (**2,** 1946; **5,** 1945)

Harris, Robert S., Ph.D. Massachusetts Inst. of Technology, Cambridge. *Prof. of Nutritional Biochemistry.* (**5,** 1941)

Harris, S. C., Ph.D. Northwestern Univ. Dental School, Dept. of Pharmacology, 311 E. Chicago Ave., Chicago 12, Ill. *Assoc. Prof. and Chairman of Dept.* (**1,** 1947)

Harris, T. N., M.D. Children's Hospital of Philadelphia, Philadelphia, Pa. *Assoc. in Pediatrics, Univ. of Pennsylvania.* (**6,** 1946)

Harris, William H., M.D. Tulane Univ. School of Medicine, New Orleans, La. *Assoc. Prof. of Pathology.* (**4,** 1925)

Harrison, Frank, Ph.D. Univ. of Tennessee College of Medicine, Memphis. *Prof. and Chief, Div. of Anatomy.* (**1,** 1941)

Harrison, James A., Ph.D. Temple Univ., Philadelphia 22, Pa. *Prof. of Biology.* (**6,** 1946)

Harrison, Ross Granville, M.D., Ph.D. Osborn Zoological Lab., New Haven, Conn. *Sterling Prof. Emeritus of Biology, Yale Univ.* (**1,** 1906)

Harrison, R. Wendell, M.D., Ph.D. Ellis Ave. at 58th St., Chicago 37, Ill. *Prof. of Bacteriology; Dean of Faculties and Vice Pres., Univ. of Chicago.* (**6,** 1934)

Harrow, Benjamin, Ph.D. College of the City of New York, Convent Ave. and 139th St., New York City. *Prof. of Chemistry.* (**2,** 1927)

Hart, E. B., B.S. Univ. of Wisconsin Agricultural College, Madison. *Prof. of Biochemistry.* (**2,** 1910; **5,** 1933)

Hart, E. Ross, Ph.D. Med. Div., Army Chemical Center, Md. *Toxicologist.* (**3,** 1944)

Hart, William M., Ph.D. Temple Med. School, Broad and Ontario Sts., Philadelphia 40, Pa. *Asst. Prof. of Physiological Chemistry.* (**1,** 1945)

Hartline, H. K., M.D. Johns Hopkins Univ., Dept. of Biophysics, Baltimore 18, Md. (**1,** 1929)

Hartman, Carl G., Ph.D. Ortho Research Foundation, Raritan, N. J. *Dir. of Physiology.* (**1,** 1921)

Hartman, Frank Alexander, Ph.D. Ohio State Univ., Dept. of Physiology, Columbus. *Research Prof. of Physiology.* (**1,** 1916)

Hartman, F. W., M.D. Henry Ford Hospital, Detroit, Mich. *Pathologist.* (**4,** 1927)

Hartmann, Alexis F., M.D. 500 S. Kingshighway, St. Louis, Mo. *Prof. of Pediatrics, Washington Univ. School of Medicine.* (**2,** 1932)

Hartroft, Walter Stanley, M.D., Ph.D. Univ. of Toronto, Banting Inst., Toronto 5, Ontario, Canada. *Assoc. Prof.* (**4,** 1950)

Harvey, A. McGhee, M.D. Johns Hopkins Hospital, Baltimore 5, Md. *Physician-in-Chief; Prof. of Medicine, Johns Hopkins Univ. Med. School.* (**1,** 1946; **3,** 1946)

Harvey, E. Newton, Ph.D. Princeton Univ., Guyot Hall, Princeton, N. J. *Henry Fairfield Osborn Prof. of Biology.* (**1,** 1914; **2,** 1916)

Hass, George, M.D. Presbyterian Hospital of Chicago, Chicago, Ill. *Prof. and Chairman of Dept. of Pathology, Univ. of Illinois College of Medicine.* (**4,** 1939)

Hassid, William Z., Ph.D., Univ. of California, Berkeley. *Prof. of Plant Biochemistry.* (**2,** 1946)

Hastings, A. Baird, Ph.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Hamilton Kuhn Prof. of Biological Chemistry.* (**1,** 1927; **2,** 1921; **5,** 1940)

Hathaway, Millicent L., Ph.D. Agricultural Research Administration, Bureau of Human Nutrition and Home Economics, Food and Nutrition Div., Washington 25, D. C. (**5,** 1945)

Hauck, Hazel M., Ph.D. Cornell Univ., Ithaca, N. Y. *Prof. of Home Economics.* (**5,** 1941)

Hauge, Siegfred M., Ph.D. Purdue Univ. Agricultural Exper. Station, Lafayette, Ind. *Research Assoc. in Biochemistry.* (**5,** 1933)

Haurowitz, Felix, M.D., D.Sc. Indiana Univ., Bloomington. *Prof. of Chemistry.* (**2,** 1949; **6,** 1948)

Haury, Victor G., M.D. Box 206, Wellsville, Kansas. *Private Practice in Medicine.* (**3,** 1939)

Haven, Frances L., Ph.D. Univ. of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester, N. Y. *Assoc. in Biochemistry.* (**2,** 1941)

Hawk, Philip B., Ph.D. Food, Drug and Cosmetic Consultants, 4818 33rd St., Long Island City, N. Y. *Pres. of Food Research Labs., Inc.* (**1,** 1903; **2,** 1906)

Hawkins, J. E., Jr., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Physiologist.* (**1,** 1943)

Hawkins, William Bruce, M.D. Univ. of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester, N. Y. *Assoc. Prof. of Pathology.* (**4,** 1933)

Hawley, Estelle E., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Research Fellow in Pediatrics.* (**5,** 1935)

Hawn, Clinton van Zandt, M.D. Mary Imogene Bassett Hospital, Cooperstown, N. Y. *Pathologist; Dir. of Otsego County Labs.* (**4,** 1948)

Hay, Eleanor Clarke, Ph.D. 7 Greenhill Rd., Madison, N. J. (**1,** 1945)

Hayman, J. M., Jr., M.D. Lakeside Hospital, Cleveland, Ohio. *Prof. of Medicine, Western Reserve Univ.* (**1,** 1928; **3,** 1932)

Haynes, Florence W., Ph.D. Harvard Med. School, 25 Shattuck St., Boston, Mass. *Research Assoc. in Medicine.* (**1,** 1937)

Hays, Edwin Everett, Ph.D. Armour Labs., 1425 W. 42nd St., Chicago 9, Ill. *Dir. of Biochemical Research.* (**2,** 1946)

Hays, Harry W., Ph.D. Wayne Univ. College of Medicine, 1512 St. Antoine St., Detroit 26, Mich. *Assoc. Prof. of Pharmacology.* (**3,** 1949)

Haywood, Charlotte, Ph.D. Mount Holyoke College, South Hadley, Mass. *Prof. of Physiology.* (**1,** 1939)

Hazen, Elizabeth L., Ph.D. New York State Dept. of Health Labs., 339 E. 25th St., New York City. *Sr. Bacteriologist.* (**6,** 1931)

Hazleton, Lloyd W., Ph.D. Box 333, Falls Church, Va. *Dir., Hazelton Labs.* (**3,** 1944)

Hechter, Oscar M., Ph.D. Worcester Foundation for Exper. Biology, 222 Maple Ave., Shrewsbury, Mass. (**1,** 1945)

Hegnauer, Albert H., Ph.D. Boston Univ. School of Medicine, Boston, Mass. *Assoc. Prof. of Physiology.* (**1,** 1937)

Hegsted, David Mark, Ph.D. Harvard School of Public Health, Boston, Mass. *Prof. of Nutrition.* (**5,** 1944)

Heidelberger, Charles, Ph.D. Univ. of Wisconsin, McArdle Memorial Lab., Madison 6. *Asst. Prof., Dept. of Oncology.* (**2,** 1950)

Heidelberger, Michael, Ph.D. Columbia Univ., 630 W. 168th St., New York City 32. *Prof. of Immunochemistry; Chemist to the Presbyterian Hospital.* (**2,** 1927; **6,** 1935)

Heilbrunn, Lewis Victor, Ph.D. Univ. of Pennsylvania, Philadelphia. *Prof. of Zoology.* (**1,** 1930)

Heim, J. William, Ph.D. 1 Yale Ave., Dayton 6, Ohio. *Aero-Med. Lab., Army Air Forces, Wright Field.* (**1,** 1936)

Heinbecker, Peter, M.D. Washington Univ. Med. School, St. Louis, Mo. *Assoc. Prof. of Clin. Surgery.* (**1,** 1930)

Heinle, Robert W., M.D. Western Reserve Univ., Cleveland, Ohio. *Asst. Prof. of Medicine.* (**5,** 1948)

Helff, O. M., Ph.D. New York Univ., University Heights, New York City. *Assoc. Prof. of Biology.* (**1,** 1932)

Hellbaum, Arthur A., Ph.D., M.D. Univ. of Oklahoma School of Medicine, Oklahoma City. *Prof. of Pharmacology.* (**1,** 1937; **3,** 1945)

Hellebrandt, Frances Anna, M.D. Med. College of Virginia, Richmond. *Prof. of Physical Medicine.* (**1,** 1933)

Heller, Carl G., M.D., Ph.D. Univ. of Oregon Med. School, Portland 1. *Assoc. Prof. of Physiology and Medicine.* (**1,** 1945)

Heller, Victor G., Ph.D. Oklahoma A & M College, Stillwater. *Head of Dept. of Agricultural Chemistry Research.* (**2,** 1935; **5,** 1935)

Hellerman, Leslie, Ph.D. Johns Hopkins Univ. School of Medicine, 710 N. Washington St., Baltimore 5, Md. *Assoc. Prof. of Physiological Chemistry.* (**2,** 1935)

Helmer, Oscar Marvin, Ph.D. Indianapolis General Hospital, Indianapolis, Ind. *Head of Dept. of Physiological Chemistry.* (**2,** 1935)

Hemingway, Allan, Ph.D. 241 Cecil St., S.E., Minneapolis, Minn. *Assoc. Prof. of Physiology, Univ. of Minnesota.* (**1,** 1933)

Henderson, Francis G., M.D. 740 S. Alabama St., Indianapolis 2, Ind. *Pharmacologist, Eli Lilly & Co.* (**3,** 1950)

Henderson, LaVell M., Ph.D. Univ. of Illinois, Urbana. *Asst. Prof. of Chemistry* (**2,** 1949)

Hendley, Charles D., Ph.D. Ohio State Univ., Hamilton Hall, Columbus 10. *Asst. Prof. of Physiology.* (**1,** 1949)

Hendrix, Byron M., Ph.D. Univ. of Texas School of Medicine, Galveston. *Prof. of Biochemistry.* (**2,** 1920)

Hendrix, James Paisley, M.A., M.D. Duke Hospital, Durham, N. C. *Asst. Prof. of Medicine (in charge of Therapeutics); Assoc. in Physiology and Pharmacology, Duke Univ. School of Medicine.* (**3,** 1942)

Hendry, Jessie L., M.A. Div. of Labs. and Research, New York State Dept. of Health, New Scotland Ave., Albany. *Sr. Bacteriologist.* (**6,** 1938)

Henle, Werner, M.D. 1740 Bainbridge St., Philadelphia 46, Pa. *Assoc. Prof. of Virology in Pediatrics.* (**6,** 1938)

Henry, James P., M.A., M.Sc. Aero-Med. Lab., Wright Field, Dayton, Ohio. *On leave of absence from the Univ. of Southern California, Los Angeles.* (**1,** 1947)

Henschel, Austin F., Ph.D. Univ. of Minnesota, Minneapolis. *Asst. Prof. of Physiological Hygiene.* (**1,** 1944)

Hepburn, Joseph Samuel, Ph.D., M.D. Chem.D. 2045 N. Franklin St., Philadelphia 22, Pa. *Prof. of Chemistry and Research Assoc. in Gastroenterology; Registrar, Hahnemann Med. College and Hospital.* (**2,** 1915)

Hepler, Opal E., Ph.D., M.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago, Ill *Assoc. Prof. of Pathology.* (**4,** 1939)

Heppel, Leon A., Ph.D., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Surgeon, USPHS.* (**2,** 1949)

Herbst, Robert M., Ph.D. Kedzie Chemical Lab., Michigan State College, East Lansing. *Prof. of Chemistry.* (**2,** 1938)

Herget, Carl M., Ph.D. Med. Div., Army Chemical Center, Md. *Chief, Biophysics Section.* (**1,** 1948)

Herrick, C. Judson, Ph.D. 236 Morningside Dr., Grand Rapids 6, Mich. *Prof. Emeritus of Neurology, Univ. of Chicago, Chicago, Ill.* (**1R,** 1907)

Herrick, Julia F., Ph.D. Mayo Foundation, Rochester, Minn. *Assoc. Prof. of Exper. Medicine.* (**1,** 1933)

Herrin, Raymond C., Ph.D., M.D. Univ. of Wisconsin Med. School, Madison. *Prof. of Physiology.* (**1,** 1932)

Herrington, Lovic P., Ph.D. 290 Congress Ave., New Haven, Conn. *Assoc. Dir., John B. Pierce Lab. of Hygiene; Research Assoc. Prof., Dept. of Public Health, Yale Med. School.* (**1,** 1942)

Herriott, Roger M., Ph.D. Johns Hopkins School of Hygiene and Public Health, 615 N. Wolfe St., Baltimore 5, Md. *Prof. of Biochemistry* (**2,** 1940)

Herrmann, George R., Ph.D., M.D. Univ. of Texas Med. Branch, Galveston. *Prof. of Medicine.* (**4,** 1925)

Herrmann, Julian B., Ph.B., M.D. 1185 Park Ave., New York City. (**3,** 1941)

Herrmann, Louis George, M.D. Cincinnati General Hospital, Cincinnati 29, Ohio. *Attending Surgeon; Assoc. Prof. of Surgery, Univ. of Cincinnati College of Medicine.* (**4,** 1933)

Hertz, Roy, Ph.D., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Public Health Surgeon (R), Div. of Physiology.* (**1,** 1945)

Hertzman, Alrick B., Ph.D. St. Louis Univ. School of Medicine, St. Louis, Mo. *Prof. of Physiology and Dir. of Dept.* (**1,** 1925)

Herwick, Robert P., Ph.D., M.D. American Home Products Corp., 22 E. 40th St., New York City. *Vice Pres., Whitehall Div.* (**3,** 1938)

Hess, Charles L., M.S., M.D. 308 Davidson Bldg., Bay City, Mich. (**1,** 1916)

Hess, Walter C., Ph.D. Georgetown Med. School, 39th St. and Reservoir Rd., N.W., Washington 7, D. C. *Prof. of Biological Chemistry.* (**2,** 1935)

Hetherington, Albert W., Ph.D. School of Aviation Medicine, Randolph Field, Texas. (**1,** 1943)

Hewetson, Jean Hawks, M.D. 115 E. York St., Biglerville, Pa. (**5,** 1944)

Hewitt, Earl Albon, Ph.D. Iowa State College, Ames. *Assoc. Prof. of Veterinary Physiology.* (**1,** 1932)

Hewston, Elizabeth M., M.A. 1121 24th St., N.W., Apt. 300, Washington 7, D. C. *Chemist, Bureau of Human Nutrition and Home Economics.* (**5,** 1950)

Heyroth, Francis F., M.D., Ph.D. Univ. of Cincinnati, Cincinnati, Ohio. *Assoc. Prof. of Ind. Toxicology and Asst. Dir., Kettering Lab.; Assoc. Prof. of Biological Chemistry, College of Medicine.* (**2,** 1935)

Hiatt, Edwin P., Ph.D. Univ. of North Carolina School of Medicine, Chapel Hill. *Assoc. Prof. of Physiology.* (**1,** 1942)

Hickman, Kenneth C. D., Ph.D. 56 Thackeray Rd., Rochester 10, N. Y. *Consultant, Arthur D. Little, Inc.* (**2,** 1944)

Hier, Stanley W., Ph.D. Wilson Labs., 4221 S. Western Ave., Chicago 9, Ill. *Tech. Asst. to General Manager.* (**2,** 1950)

Hiestand, William A., Ph.D. Purdue Univ., Dept. of Biology, Lafayette, Ind. *Prof. of Physiology.* (**1,** 1947)

Higgins, George M., Ph.D. Mayo Clinic, Rochester, Minn. *Prof. of Exper. Biology, Mayo Foundation.* (**5,** 1948)

Higgins, Harold Leonard, M.D. 322 Franklin St., Newton, Mass. (**1,** 1914; **5,** 1933)

Highman, Benjamin, M.D. Natl. Insts. of Health, Bethesda, Md. *Sr. Surgeon, Lab. of Pathology and Pharmacology.* (**4,** 1947)

Hill, Edgar S., Ph.D. Washington Univ. College of Dentistry, St. Louis, Mo. *Assoc. Prof. of Biological Chemistry and Physiology.* (**2,** 1936)

Hill, Robert M., Ph.D. Univ. of Colorado Med. Center, 4200 E. 9th Ave., Denver. *Prof. of Biochemistry.* (**2,** 1933)

Hill, Samuel E., Ph.D. 18 Collins Ave., Troy, N.Y. *Research Worker, The Behr-Manning Corp.* (**1,** 1934)

Hilleman, Maurice, Ph.D. Army Med. Center, AMDR & GS, Dept. of Virus and Rickettsial Diseases, Washington 12, D.C. *Med. Bacteriologist.* (**6,** 1949)

Hiller, Alma, Ph.D. Presbyterian Hospital, 1753 W. Congress St., Chicago 12, Ill. *Assoc., Rush Dept. of Biochemistry.* (**2,** 1929)

Himwich, Harold E., M.D. Fallston, Md. *Chief, Clin. Research Branch, Med. Div., Army Chemical Center, Md.* (**1,** 1925)

Himwich, Williamina A., Ph.D. Johns Hopkins Univ., Welch Med. Library, Baltimore, Md. *Med. Bibliographer.* (**1,** 1947)

Hine, Charles H., Ph.D., M.D. Univ. of California Med. School, Pharmacology and Toxicology Dept., Med. Center, San Francisco 22. *Asst. Prof.* (**3,** 1947)

Hines, Harry M., Ph.D. State Univ. of Iowa, Iowa City. *Prof. of Physiology.* (**1,** 1928)

Hines, Marion, Ph.D. Emory Univ. Dept. of Anatomy, Emory University, Ga. *Prof. of Exper. Anatomy.* (**1,** 1932)

Hinrichs, Marie, Ph.D., M.D. Southern Illinois Normal Univ., Carbondale. *Prof. of Physiology; Dir. of Student Health Service.* (**1,** 1928)

Hinsey, Joseph C., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Prof. of Anatomy and Dean of the Med. College.* (**1,** 1929)

Hirschmann, Hans, M.D., Ph.D. Lakeside Hospital, Cleveland, Ohio. *Asst. Prof. of Biochem-*

istry, Dept. of Medicine, Western Reserve Univ. (**2,** 1946)

Hirszfeld, Ludwik, M.D. Univ. of Wroclaw, Wroclaw, Ul. Chaubinskiego 4, Poland. *Prof. of Microbiology; Dir. of Med. Microbiology.* (**6,** 1946)

Hisaw, Frederick L., Ph.D. Harvard Univ. Biological Labs., Cambridge, Mass. *Prof. of Zoology.* (**1,** 1932)

Hitchcock, David I., Ph.D. Yale Univ., 333 Cedar St., New Haven 11, Conn. *Assoc. Prof. of Physiology.* (**2,** 1930)

Hitchcock, Fred A., Ph.D. Ohio State Univ., Columbus. *Prof. of Physiology.* (**1,** 1927; **5,** 1933)

Hitchcock, Philip, Ph.D., M.D. Med. College of Alabama, Dept. of Physiology and Pharmacology, Birmingham 5. *Assoc. Prof. of Pharmacology.* (**3,** 1946)

Hitchings, George H., Ph.D. 50 Primrose Ave., Tuckahoe 7, N.Y., *Chief Biochemist, Wellcome Research Labs.* (**2,** 1942)

Hjort, Axel M., M.D., Ph.D. P.O. Box 281, Fern Way, Scarsdale, N. Y. *Private Research Lab. and Practice of Medicine.* (**2,** 1925)

Hoagland, Hudson, Ph.D. 222 Maple Ave., Shrewsbury, Mass. *Exec. Dir., Worcester Foundation for Exper. Biology; Neurophysiologist, Worcester State Hospital.* (**1,** 1932)

Hobby, Gladys L., Ph.D. 11 Bartlett St., Brooklyn 6, N.Y. *Research Bacteriologist in charge of Biological Control, Chas. Pfizer & Co.* (**6,** 1946)

Hober, Rudolf. 5307 Larchwood Ave., Philadelphia 43, Pa. *Visiting Prof. of Physiology, Univ. of Pennsylvania Med. School* (**1R,** 1936)

Hoberman, Henry D., Ph.D., M.D. Yale Univ. School of Medicine, Dept. of Physiological Chemistry, 333 Cedar St., New Haven 11, Conn. *Asst. Prof. of Physiological Chemistry.* (**2,** 1949)

Hockett, Robert C., Ph.D. Sugar Research Foundation, Inc., 52 Wall St., New York City 5. *Scientific Dir.* (**2,** 1950)

Hodes, Robert, Ph.D. Tulane Univ. School of Medicine, Dept. of Psychiatry, New Orleans 12, La. *Prof. of Exper. Neurology and Neurophysiology.* (**1,** 1941)

Hodge, Harold Carpenter, Ph.D. Univ. of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester 7, N. Y. *Prof. of Pharmacology and Toxicology.* (**2,** 1937; **3,** 1948)

Hoefer, Paul F. A., Ph.D., M.D. Neurological Inst. of New York, 710 W. 168th St., New York City 32. *Assoc. Prof. of Neurology.* (**1,** 1945)

Hoff, Ebbe Curtis, Ph.D. Med. College of Virginia, Richmond 19. *Assoc. Prof.* (**1,** 1933)

Hoff, Hebbel E., Ph.D. Baylor Univ. College of Medicine, Dept. of Physiology, 1200 M. D. Anderson Blvd., Houston 5, Tex. *B. F. Hambleton Prof. and Chairman of the Dept.* (**1,** 1933)

Hoffman, William Samuel, Ph.D., M.D. Hektoen Inst. for Med. Research, 629 S. Wood St., Chicago 12, Ill. *Dir. of Biochemistry, Cook County Hospital.* (**2,** 1935)

Hofmann, Klaus, Ph.D. Univ. of Pittsburgh, Dept. of Chemistry, Pittsburgh, Pa. *Research Prof.* (**2,** 1947)

Hogan, Albert G., Ph.D. Univ. of Missouri, 105 Schweitzer Hall, Columbia. *Prof. of Animal Nutrition.* (**2,** 1916; **5,** 1933)

Hogness, Thorfin R., Ph.D. Univ. of Chicago, Chicago Ill. *Dir., Inst. of Radiobiology and Biophysics.* (**2,** 1941)

Holck, Harald G. O., Ph.D. Univ. of Nebraska, College of Pharmacy, Lincoln. *Prof. of Pharmacology.* (**1,** 1935; **3,** 1938)

Hollaender, Alexander, Ph.D. Oak Ridge Natl. Lab., Oak Ridge, Tenn. (**1,** 1947)

Hollander, Franklin, Ph.D. Mount Sinai Hospital, Fifth Ave. and 100th St., New York City. *Assoc. in Physiology; Head, Gastro-enterology Research Lab.* (**1,** 1942; **2,** 1932)

Hollinshead, W. Henry, Ph.D. Mayo Clinic, Rochester, Minn. *Head of Section on Anatomy; Prof. of Anatomy, Mayo Foundation.* (**1,** 1949)

Holm, August, Sc.D. E. R. Squibb & Sons, New Brunswick, N. J. *Research Assoc.* (**6,** 1946)

Holman, Ralph Theodore, Ph.D. A and M College of Texas, College Station. *Assoc. Prof. of Biochemistry and Nutrition.* (**2,** 1948)

Holman, Russell Lowell, M.D. Louisiana State Univ. School of Medicine, New Orleans. *Prof. of Pathology.* (**4,** 1940)

Holmes, Arthur Dunham, Ph.D. Univ. of Massachusetts, Amherst. *Research Prof. of Chemistry.* (**2,** 1931; **5R,** 1933)

Holmes, Joseph H., M.D., D.Med.Sc. Univ. of Colorado School of Medicine, 4200 E. Ninth Ave., Denver 7. *Assoc. Prof. of Medicine.* (**1,** 1947)

Holmes, Julia O., Ph.D. 79 Old Town Rd., Amherst, Mass. (**2,** 1942; **5,** 1936)

Holt, Joseph Paynter, M.D., Ph.D. Standard Oil Co., Room 2400, 30 Rockefeller Plaza, New York City 20. *Dir. of Med Research.* (**1,** 1942)

Holt, L. Emmett, Jr., M.D. 477 First Ave., New York City 16. *Prof. of Pediatrics, New York Univ. College of Medicine* (**2,** 1930; **5,** 1946)

Hoobler, Icie Macy, Ph.D. 660 Frederick St., Detroit 2, Mich. *Dir., Research Lab. Children's Fund of Michigan.* (**2,** 1925; **5,** 1933)

Hoobler, Sibley W., M.D. Univ. of Michigan Hospital, Dept. of Medicine and Surgery, Ann Arbor. *Asst. Prof. of Medicine.* (**1,** 1949)

Hooker, Davenport, Ph.D. Univ. of Pittsburgh School of Medicine, Pittsburgh, Pa. *Prof. of Anatomy.* (**1,** 1920)

Hooker, Sanford B., A.M., M.D. 80 E. Concord St., Boston, Mass. *Member Evans Memorial.* (**6,** 1918)

Hoover, Sam R., Ph.D. 7815 Linden Rd., Philadelphia 18, Pa. *Sr. Chemist Eastern Regional Research Lab., U.S. Dept. of Agriculture.* (**2,** 1946)

Hoppe, James O., Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Research Assoc. in Pharmacology.* (**3,** 1950)

Hoppert, C. A., Ph.D. Michigan State College, Box 626, East Lansing. *Prof. of Biological Chemistry.* (**5,** 1935)

Hopps, Howard C., M.D. Univ. of Oklahoma School of Medicine, 801 E. 13th St., Oklahoma City. *Prof. and Chairman of Dept. of Pathology.* (**4,** 1947; **6,** 1946)

Horecker, Bernard L., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Biochemist.* (**2,** 1947)

Horn, Millard J., Ph.D. 1811 Varnum St., N.E., Washington 18, D.C. *U.S. Dept. of Agriculture, Chemist.* (**2,** 1949)

Horowitz, Norman H., Ph.D. California Inst. of Technology, Pasadena. *Assoc. Prof. of Biology.* (**2,** 1946)

Horsfall, Frank L., Jr., M.D. C.M. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Member; Physician to the Hospital of the Rockefeller Inst. for Med. Research.* (**6,** 1937)

Horton, Richard G., Ph.D. Med. Div., Army Chemical Center, Md. *Acting Chief, Toxicology Section.* (**1,** 1948)

Horvath, Steven M., Ph.D. State Univ. of Iowa School of Medicine, Dept. of Physiology, Iowa City. (**1,** 1943)

Horwitt, M. K., Ph.D. Biochemical Research Lab., Elgin State Hospital, Elgin, Ill. *Dir.; Asst. Prof., Biological Chemistry, Univ. of Illinois College of Medicine.* (**2,** 1941; **5,** 1949)

Hoskins, R. G., Ph.D., M.D. 86 Varick Rd., Waban 68, Mass. (**1R,** 1911)

Hotchkiss, Rollin D., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Assoc. Member.* (**2,** 1941)

Hou, H. C., M.D. % Union Embroidery Co., 22 Wyndham St., Hong Kong, China. (**5,** 1949)

Houck, C. Riley, Ph.D. Univ. of Tennessee Med. School, Memphis 3. *Asst. Prof. in Physiology.* (**1,** 1947)

Hove, Edwin L., Ph.D. Alabama Polytechnic Inst., Lab. of Animal Nutrition, Auburn. *Research Biochemist.* (**5,** 1946)

Howard, Evelyn, Ph.D. Johns Hopkins School of Medicine, Baltimore, Md. *Asst. Prof. of Physiology.* (**1,** 1933)

Howard, John Eager, A.B., M.D. Johns Hopkins Hospital, Baltimore 5, Md. *Asst. Prof. of Medicine.* (**1,** 1946)

Howard, Marion E., M.D. 38 Trumbull St., New Haven, Conn. *Assoc. Clin. Prof. of Medicine, Yale School of Medicine; Assoc. Physician, New Haven Hospital and New Haven Dispensary.* (**4,** 1939; **6,** 1937)

Howe, Howard A., Ph.D. Johns Hopkins Univ., 1901 East Madison St., Baltimore 5, Md. *Adjunct Prof. of Epidemiology.* (**6,** 1949)

Howe, Paul E., Ph.D. U.S. Dept. of Agriculture, Bureau of Animal Ind., Washington 25, D. C, *Nutrition Consultant* (**1,** 1913; **2,** 1909; **5,** 1933)

Howell, Katherine M., M.D. 6830 S. Merrill Ave., Chicago, Ill. *Head of Depts. of Bacteriology and Serology.* (**6,** 1940)

Howell, Stacey F., Ph.D. Veterans Admin. Hospital, Perry Point, Md. *Biochemist, Clin. Lab.* (**2,** 1940)

Howland, Joe W., M.D., Ph.D. Strong Memorial Hospital, 260 Crittenden Blvd., Rochester 7, N. Y. *Asst. Prof. of Radiation Biology, Univ. of Rochester; Chief, Div. of Med. Services.* (**1,** 1949)

Hubbard, Roger Sanford, Ph.D. Univ. of Buffalo School of Medicine, 24 High St., Buffalo 2, N. Y. *Prof. of Pharmacology.* (**1,** 1922; **2,** 1920)

Hubbell, Rebecca B., Ph.D. Connecticut Agricultural Exper. Station, New Haven. *Asst. Biochemist.* (**2,** 1937; **5,** 1935)

Hudack, Stephen Sylvester, M.D. 180 Fort Washington Ave., New York City. *Assoc. Prof. of Orthopedic Surgery, Columbia Univ.* (**4,** 1933)

Huddleston, Ora L., M.D., Ph.D. Kabat-Kaiser Inst., 1815 Ocean Front, Santa Monica, Calif. *Med. Dir.* (**1,** 1936)

Hueper, Wilhelm C., M.D. Natl. Cancer Inst., Bethesda, Md. *Chief, Cancerigenic Studies Section; Chief, Cancerigenic Research Labs.* (**4,** 1940)

Huf, Ernst G., Ph.D., M.D. 3500 Carolina Ave., Richmond, Va. *Assoc. Prof. of Physiology, Med. College of Virginia.* (**1,** 1949)

Huff, Jesse W., Ph.D. Sharp & Dohme, Inc., Glenolden, Pa. *Dir., Biochemical Research.* (**2,** 1949)

Huffman, C. F., Ph.D. Michigan State College, East Lansing. *Research Prof. and Prof. in Dairy Husbandry.* (**5,** 1937)

Huffman, Max N., Ph.D. Southwestern Med. College, 2211 Oak Lawn Ave., Dallas, Tex. *Research Prof. of Biochemistry.* (**2,** 1947)

Huggins, Charles Brenton, M.D. Univ. of Chicago, Chicago, Ill. *Prof. of Surgery.* (**1,** 1932)

Huggins, Joseph, M.D. 111 N. 49th St., Philadelphia, Pa. *Asst. Prof. of Exper. Neurology, Grad. School of Medicine, Univ. of Pennsylvania; Dir. of Lab., Pennsylvania Hospital for Mental Diseases.* (**1,** 1936)

Huggins, Russell A., Ph.D. Baylor Univ. College of Medicine, 1200 M. D. Anderson Blvd., Houston 5, Tex. *Assoc. Prof. of Pharmacology.* (**3,** 1949)

Hughes, Hettie B., Ph.D. Christ Hospital, Cincinnati 19, Ohio. *Research Assoc.* (**2,** 1946)

Hughes, Josiah Simpson, Ph.D. Kansas State

College, Manhattan. *Prof. of Chemistry.* (**2,** 1931; **5,** 1939)

Hughes, Thomas P., Ph.D. Johns Hopkins Univ. School of Public Health, Baltimore, Md. *Member Field Staff, Rockefeller Foundation, New York City.* (**6,** 1934)

Hulpieu, Harold R., Ph.D. Indiana Univ. School of Medicine, Indianapolis. *Prof. of Pharmacology.* (**3,** 1939)

Humphreys, Eleanor M., M.D. Univ. of Chicago, Dept. of Pathology, Chicago 37, Ill. *Professor.* (**4,** 1950)

Humphries, James C., Ph.D. Univ. of Kentucky, College of Arts and Science, Lexington. *Assoc. Prof. of Bacteriology.* (**6,** 1950)

Hundley, James M., M.D. Natl. Insts. of Health, Exper. Biology and Medicine Inst., Bethesda 14, Md. *Chief, Section on Nutrition.* (**5,** 1950)

Hunscher, Helen A., Ph.D. Western Reserve Univ., 2023 Adelbert Rd., Cleveland 6, Ohio. *Head of Dept. of Home Economics.* (**5,** 1934)

Hunt, Carlton C., M.D. Wilmer Inst., Johns Hopkins Hospital, Baltimore, Md. *Sr. Fellow, Natl. Research Council.* (**1,** 1950)

Hunter, Andrew, C.B.E., M.B. Hospital for Sick Children, Toronto, Ontario, Canada. *Consulting Biochemist; Prof. Emeritus of Pathological Chemistry, Univ. of Toronto.* (**2,** 1908)

Hunter, Francis Edmund, Jr., Ph.D. Washington Univ. Med. School, St. Louis 10, Mo. *Asst. Prof. of Pharmacology.* (**2,** 1946)

Hunter, George, M.A., D.Sc. 108 Walton Way, Aylesbury, Bucks, England. (**2,** 1924)

Hunter, Jesse E., Ph.D. Allied Mills, Inc., 7500 S. Adams St., Peoria, Ill. *Dir. of Research.* (**5,** 1936)

Hunter, John, Ph.D. 61 Connaught Ave., Newtonbrook, Ontario, Canada. (**1,** 1948)

Hussey, Raymond, M.D. American Med. Association, 535 N. Dearborn, Chicago 10, Ill. *Scientific Dir., Council on Industrial Health.* (**4,** 1927)

Hutchens, John O., Ph.D. Univ. of Chicago, Dept. of Physiology, Chicago 37, Ill. *Assoc. Prof. and Chairman of Dept. of Physiology; Dir. of Toxicity Lab.* (**1,** 1947)

Hutchings, Brian L., Ph.D. Lederle Labs. Div., American Cyanamid Co., Pearl River, N. Y. *Head, Dept. of Biochemistry.* (**2,** 1949)

Hyman, Chester, Ph.D. Univ. of Southern California School of Medicine, Los Angeles. *Asst. Prof. of Physiology.* (**1,** 1948)

Ingalls, Mabel S., Ph.D. 1075 Park Ave., New York City 28. *Consultant, World Health Organization, Lake Success.* (**6,** 1940)

Ingle, Dwight J., Ph.D. Upjohn Co., Research Labs., Kalamazoo, Mich. *Sr. Research Scientist.* (**1,** 1939)

Ingraham, Raymond Clifford, Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago. *Asst. Prof. in Physiology.* (**1,** 1938)

Ingram, W. R., Ph.D. State Univ. of Iowa College of Medicine, Iowa City. *Prof. and Head of Dept. of Anatomy.* (**1,** 1936)

Irish, Don D., Ph.D. Dow Chemical Co., Midland, Mich. *Dir., Biochemical Research Lab.* (**3,** 1948)

Irvin, J. Logan, Ph.D. Univ. of North Carolina, School of Medicine, Chapel Hill. *Assoc. Prof. Biological Chemistry and Nutrition.* (**2,** 1942)

Irving, George Washington, Jr., Ph.D. U. S. Dept. of Agriculture, Bureau of Agricultural and Industrial Chemistry, South Bldg., Washington 25, D. C. *Asst. Chief.* (**2,** 1946)

Irving, Laurence, Ph.D. USPHS, P.O. Box 960, Anchorage, Alaska. *Biologist, Alaska Health and Sanitation Activities.* (**1,** 1927)

Irwin, M. R., Ph.D. Univ. of Wisconsin, Madison. *Prof. of Genetics.* (**6,** 1936)

Isaacs, Raphael, M.A., M.D. 104 S. Michigan Ave., Suite 630, Chicago 3, Ill. *Attending Physician, Dept. of Hematology, Michael Reese Hospital.* (**4,** 1928)

Isbell, Harris, M.D. USPHS Hospital, Lexington, Ky. *Dir., Research Div.* (**3,** 1949)

Isenberger, R. M., M.A., M.D. Univ. of Kansas School of Medicine, Kansas City. *Prof. of Pharmacology.* (**3,** 1937)

Ivy, A. C., Ph.D., M.D. Univ. of Illinois, Chicago Professional Colleges, Chicago, Ill. *Vice-Pres.; Distinguished Service Prof. of Physiology.* (**1,** 1919; **5,** 1933)

Iwamoto, Harry K., Ph.D. Univ. of Buffalo, Schools of Medicine and Pharmacy, Dept. of Pharmacology, Buffalo 14, N. Y. (**3,** 1948)

Izquierdo, J. Joaquin, M.D. Natl. School of Medicine, Mexico City. *Prof. of Physiology in Natl. School of Medicine and the Escuela Medico Militar of Mexico.* (**1,** 1928)

Jackson, Dennis Emerson, Ph.D., M.D. 144 Louis Ave., Cincinnati 20, Ohio. *Prof. Emeritus of Pharmacology, Univ. of Cincinnati College of Medicine.* (**1R,** 1910; **3R,** 1912)

Jackson, Elizabeth B., A.B. Army Med. Center—AMDR & GS, Dept. of Virus and Rickettsial Diseases, Washington 12, D. C. *Bacteriologist.* (**6,** 1949)

Jackson, Eugene L., Ph.D. 1322 W. Broad St., Richmond 20, Va. *Med. Dir., A. H. Robins Co.* (**3,** 1942)

Jackson, Richard W., Ph.D. U. S. Dept. of Agriculture, Northern Regional Research Lab., 825 N. University St., Peoria 5, Ill. *Head of Fermentation Div.* (**2,** 1930; **5,** 1933)

Jacobs, Merkel Henry, Ph.D. Univ. of Pennsylvania, Philadelphia. *Prof. of General Physiology.* (**1,** 1919)

Jacobs, Walter A., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New

York City 21. *Member Emeritus.* (**2,** 1908; **3,** 1913)

Jacobsen, Erik, M.D. Medicinalco Ltd., Copenhagen S, Denmark. *Research Dir.* (**3,** 1950)

Jacobson, Edmund, Ph.D., M.D. Lab. for Clin. Physiology, 55 E. Washington St., Chicago, Ill. (**1,** 1929)

Jaffe, Henry L., M.D. Hospital for Joint Diseases, 1919 Madison Ave., New York City. *Dir. of Labs.* (**4,** 1925)

Jahn, Theodore Louis, Ph.D. Univ. of California, Los Angeles 24. *Chairman, Dept. of Zoology.* (**1,** 1944)

Jailer, Joseph W., Ph.D. Columbia Univ. College of Physicians and Surgeons, New York City. *Instr. in Medicine.* (**1,** 1948)

Jamieson, Walter A., Sc.D. Green Braes, R.R. 2, Indianapolis, Ind. *Dir., Biological Div., Eli Lilly & Co.* (**6,** 1927)

Jandorf, Bernard J., Ph.D. Med. Div., Army Chemical Center, Md. *Asst. Chief, Biochemistry Section.* (**2,** 1946)

Janes, Ralph G., Ph.D. State Univ. of Iowa College of Medicine, Iowa City. *Assoc. Prof. of Anatomy.* (**1,** 1948)

Jansen, Eugene F., B.A. Enzyme Research Lab., Western Regional Research Lab., Albany 6, Calif. *Sr. Chemist, Bureau of Agricultural and Industrial Chemistry, U. S. Dept. of Agriculture.* (**2,** 1947)

Jaques, L. B., Ph.D. Univ. of Saskatchewan, Saskatoon, Canada. *Prof. of Physiology.* (**1,** 1943)

Jasper, Herbert H., Ph.D., Dés Sci. Montreal Neurological Inst., 3801 University St., Montreal, Quebec, Canada. *Lecturer in Neuroelectrography and Dir. of Dept. of Electrophysiology.* (**1,** 1940)

Jawetz, Ernest, Ph.D., M.D. Univ. of California Med. Center, 3rd and Parnassus Aves., San Francisco 22. *Assoc. Prof. of Bacteriology; Lecturer in Medicine and Pediatrics.* (**6,** 1950)

Jeans, P. C., M.D. Childrens' Hospital, State Univ. of Iowa, Iowa City. *Prof. of Pediatrics.* (**5,** 1937)

Jensen, Hans F., Ph.D. Med. Dept. Field Research Lab., Fort Knox, Ky. *Chief Biochemist.* (**2,** 1929)

Jobling, James W., M.D. Suwanee Hotel, St. Petersburg, Fla. *Prof. Emeritus of Pathology, Columbia Univ.* (**4R,** 1913)

Jochim, Kenneth E., Ph.D. Univ. of Kansas, Dept. of Physiology, Lawrence. (**1,** 1942)

Johlin, J. M., Ph.D. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Assoc. Prof. of Biochemistry.* (**2,** 1928)

Johnson, B. Connor, Ph.D. Univ. of Illinois, Div. of Animal Nutrition, 554 Davenport Hall, Urbana. *Assoc. Prof.* (**2,** 1947; **5,** 1947)

Johnson, Frank H., Ph.D. Univ. of Utah, Dept. of Chemistry, Salt Lake City 1. (**1,** 1942)

Johnson, Joseph L., Ph.D., M.D. Howard Univ. School of Medicine, Washington, D. C. *Prof. and Head of Dept. of Physiology.* (**1,** 1934)

Johnson, J. Raymond, Ph.D. Univ. of Ottawa, Faculty of Medicine, Ottawa, Ontario, Canada. (**1,** 1938)

Johnson, Marvin J., Ph.D. Univ. of Wisconsin, Biochemistry Bldg., Madison. *Prof. of Biochemistry.* (**2,** 1941)

Johnson, Robert E., M.D., Ph.D. Univ. of Illinois College of Liberal Arts and Sciences, Dept. of Physiology, Urbana. *Head of Dept.* (**1,** 1944; **2,** 1939; **5,** 1946)

Johnson, S. R., Ph.D. Missouri Farmers Assoc. Milling Co., Springfield. *Dir. of Nutrition.* (**5,** 1947)

Johnson, Victor, Ph.D., M.D. Mayo Foundation, Rochester, Minn. (**1,** 1933)

Johnston, Charles G., M.S., M.D. Wayne Univ. College of Medicine, Detroit, Mich. *Prof. of Surgery.* (**1,** 1933)

Johnston, Frances A., Ph.D. Cornell Univ., Ithaca, N. Y. *Asst. Prof. of Foods and Nutrition.* (**5,** 1948)

Johnston, Margaret W., Ph.D. B-452, Univ. Hospital, Ann Arbor, Mich. *Research Assoc. in Internal Medicine.* (**2,** 1930; **5,** 1938)

Jolliffe, Norman, M.D. 39 E. 75th St., New York City. (**1,** 1932)

Jones, D. Breese, Ph.D. 2901 18th St., N.W., Washington 9, D .C. *Retired.* (**2,** 1920; **5R,** 1935)

Jones, Hardin B., Ph.D. Univ. of California, Div. of Med. Physics, Berkeley 4. *Asst. Prof. of Med. Physics and Physiology; Asst. Dir. of Donner Lab.* (**1,** 1949)

Jones, James H., Ph.D. Univ. of Pennsylvania School of Veterinary Medicine, Philadelphia 4. *Prof. of Physiological Chemistry.* (**2,** 1928; **5,** 1933)

Jones, Kenneth K., Ph.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago, Ill. *Assoc. Prof. of Physiology and Pharmacology.* (**1,** 1936)

Jones, Ralph, Jr., M.D. Univ. of Pennsylvania Med. School, Philadelphia 4. *Assoc. in Medicine.* (**3,** 1950)

Joseph, Norman R., Ph.D. Univ. of Illinois, 1853 W. Polk St., Chicago 12. *Asst. Prof. of Chemistry.* (**2,** 1947)

Joslin, Elliott P., M.A., M.D., 81 Bay State Rd., Boston, Mass. *Dir., George F. Baker Clinic.* (**5R,** 1933)

Jukes, Thomas Hughes, Ph.D. Lederle Labs., Pearl River, N. Y. *Head, Dept. of Nutrition and Physiology Research.* (**2,** 1935; **5,** 1938)

Jung, Frederic Theodore, Ph.D., M.D. American

Med. Assoc., Chicago, Ill. *Asst. Secretary.* (**1,** 1930)

Jungeblut, Claus W., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Bacteriology.* **4,** 1929; **6,** 1926)

Kabat, Elvin A., Ph.D. Columbia Univ. College of Physicians and Surgeons, 710 W. 168th St., New York City 32. *Assoc. Prof. of Bacteriology.* (**2,** 1940; **6,** 1943)

Kabat, Herman, Ph.D., M.D. 2633 16th St., N. W., Washington, D. C. *Consultant in Neurology, Health Dept., District of Columbia.* (**1,** 1941)

Kahn, Reuben L., Sc.D., Univ. of Michigan Hospital, Ann Arbor. *Assoc. Prof. of Serology of Syphilis and Chief of Serology Lab.* (**4,** 1934; **6,** 1919)

Kalckar, Herman M., M.D., Ph.D. Univ. of Copenhagen, Inst. f. Cell Physiology, 28 Juliane Maries Vej, Copenhagen, Denmark. *Dir. of Inst.; Research Prof., Inst. f. Cell Physiology.* **2,** 1942)

Kalnitsky, George, Ph.D. State Univ. of Iowa, Iowa City. *Assoc. Prof. of Biochemistry.* (**2,** 1948)

Kalter, Seymour Sanford, Ph.D. Syracuse Univ., College of Medicine, Dept. of Bacteriology and Parasitology, Syracuse, N. Y. *Asst. Prof.; Assoc. Bacteriologist, Syracuse Health Dept.* (**6,** 1950)

Kamen, Martin D., Ph.D. Washington Univ. Med. School, 510 S. Kingshighway, St. Louis 10, Mo. *Assoc. Prof. of Chemistry.* (**2,** 1946)

Kamm, Oliver, Ph.D. 365 Lakeshore Drive, Detroit 30, Mich. *Research Consultant, Parke, Davis and Co.* (**2,** 1928)

Kaplan, Nathan O., Ph.D. Johns Hopkins Univ., McCallum-Pratt Inst., Baltimore 18, Md. *Asst. Prof. of Biology.* (**2,** 1949)

Karel, Leonard, Ph.D. Natl. Insts. of Health, Div. of Research and Fellowships, Bethesda 14, Md. *Exec. Sec., Hematology and Pharmacology Study Sections.* (**3,** 1947)

Karlson, Alfred G., Ph.D., D.V.M. Mayo Foundation, Rochester, Minn. *Assoc. in Exper. Pathology.* (**4,** 1950)

Karpovich, Peter V., M.D.,M.P.E. Springfield College, Springfield, Mass. *Prof. of Physiology.* (**1,** 1942)

Karshan, Maxwell, Ph.D. Columbia Univ., Dept. of Biological Chemistry, 630 W. 168th St., New York City 32. *Assoc. Prof. of Biochemistry.* (**2,** 1939)

Karsner, Howard T., M.D. Dept. of the Navy, Bureau of Medicine and Surgery, Research Div., Washington 25, D. C. *Med. Research Advisor.* (**4,** 1913)

Katz, Louis Nelson, M.A., M.D. 2900 Ellis Ave., Chicago, Ill. *Dir. of Cardiovascular Research, Michael Reese Hospital; Professorial Lecturer in Physiology, Univ. of Chicago.* (**1,** 1924)

Katzman, Philip A., Ph.D. St. Louis Univ. School of Medicine, 1402 S. Grand Blvd., St. Louis 4, Mo. *Assoc. Prof. of Biochemistry.* (**2,** 1935)

Kaulbersz, Jerzy, Ph.D. M.D. Collegium Medica, Grzegorzecka 16, Cracow, Poland. *Prof. of Physiology.* (**1,** 1944)

Kaunitz, Hans, M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Research Assoc. in Pathology.* (**4,** 1947)

Kazal, Louis Anthony, Ph.D. Sharp & Dohme, Inc., Med. Research Div., Glenolden, Pa. *Research Biochemist.* (**2,** 1947)

Keeton, Robert W., M.S., M.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago. *Prof. and Head of Dept. of Medicine.* (**1,** 1916; **3,** 1924)

Kehoe, Robert A., M.D. Univ. of Cincinnati College of Medicine, Kettering Lab. of Applied Physiology, Eden Ave., Cincinnati, Ohio. *Research Prof. of Physiology.* (**1,** 1940)

Keith, Norman M., M.D. Mayo Clinic, Rochester, Minn. *Consulting Physician, Div. of Medicine, Mayo Clinic; Prof. of Medicine, Mayo Foundation, Univ. of Minnesota.* (**1,** 1920; **3,** 1932; **4,** 1924)

Keith, T. B., Ph.D. Dept. of Animal Husbandry, Univ. of Idaho, Moscow, Idaho. (**5,** 1941)

Kellaway, Peter E., Ph.D. Baylor Univ. College of Medicine, Houston, Texas. *Assoc. Prof. of Neuropsychiatry and Physiology; Dir. of Lab. of Clin. Electrophysiology.* (**1,** 1947)

Keller, Allen D., Ph.D. Field Research Lab., Fort Knox, Ky. *Med. Dept.* (**1,** 1931)

Kellner, Aaron, M.D. Cornell Univ. Med. College, Dept. of Pathology, 1300 York Ave., New York City 21. *Asst. Prof. of Pathology; Dir. of Central Labs., New York Hospital and Cornell Med. Center.* (**4,** 1949)

Kelser, Raymond A., D.V.M., Ph.D. The Wyndon, Apt. A—105, Wynnewood, Pa. *Prof. of Bacteriology and Dean of Faculty, School of Veterinary Medicine, Univ. of Pennsylvania, Philadelphia.* (**4,** 1932)

Kelsey, F. Ellis, Ph.D. Univ. of Chicago, Chicago, Ill. *Assoc. Prof. of Pharmacology.* (**3,** 1941)

Kelsey, Frances Kathleen O., Ph.D. Univ. of Chicago, Chicago, Ill. *Assoc. Prof. of Pharmacology.* (**3,** 1941)

Kemmerer, A. R., Ph.D. Univ. of Arizona, Tucson. *Head of Dept. of Human Nutrition.* (**5,** 1946)

Kempner, Walter, M.D. Duke Univ. School of Medicine, Durham, N. C. *Asst. Prof. of Medicine.* (**1,** 1940)

Kendall, Edward C., Ph.D., 627 Eighth Ave., S. W., Rochester, Minn. *Prof. of Biochemistry, Mayo Foundation, Univ. of Minnesota.* (**1,** 1916; **2,** 1913; **4,** prior to 1920).

Kendall, Forrest E., Ph.D. 240-06-53rd Ave., Douglaston, Long Island, N. Y. *Asst. Prof. of Biochemistry, Research Service, Columbia Div., Goldwater Memorial Hospital Welfare Island.* (**6,** 1943)

Kennard, Margaret A., M.D. Univ. of Oregon Med. School, Dept. of Surgery, Portland. *Assoc. Prof. of Exper. Surgery.* (**1,** 1934)

Kennedy, Cornelia, Ph.D. 2700 W. Robbins St., Minneapolis 10, Minn. *Prof. Emeritus of Agricultural Biochemistry, Univ. of Minnesota.* (**2,** 1924; **5R,** 1934)

Kensler, Charles J., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Instr., Dept. of Pharmacology; Sr. Research Fellow, Natl. Research Council.* (**3,** 1949)

Kent, John F., A.M. Army Med. Center, Washington 12, D. C. *Scientific Dir., Dept. of Serology, Army Med. Dept. Research and Grad. School,* (**6,** 1947)

Kenton, Harold B., Ph.D. New England Deaconess Hospital, Boston, Mass. *Bacteriologist and Dir. of the Blood Bank.* (**6,** 1934)

Kenyon, Allan T., M.D. Univ. of Chicago, Div. of Biological Sciences, 950 E. 59th St., Chicago, Ill. *Asst. Prof. of Medicine.* (**3,** 1940)

Keresztesy, John C., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Scientist Officer, Div. of Physiology.* (**2,** 1941; **5,** 1945)

Kerr, Stanley E., Ph.D. American Univ. of Beirut, Beirut, Lebanon. *Prof. of Biological Chemistry.* (**2,** 1937)

Kerr, Wm. J., M.D. Univ. of California Hospital, 3rd and Parnassus Aves., San Francisco. *Physician-in-Chief; Prof. of Medicine, Univ. of California.* (**3,** 1930)

Kesten, Homer D., M.D. Columbia Univ. College of Physicians and Surgeons, New York City 32. *Assoc. Prof. of Pathology.* (**4,** 1931)

Keston, Albert S., Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City. *Asst. Prof., Dept. of Biochemistry.* (**2,** 1950)

Kety, Seymour S., M.D. Univ. of Pennsylvania Grad. School of Medicine, Dept. of Physiology and Pharmacology, Philadelphia 4. *Prof. of Clin. Physiology.* (**1,** 1949; **3,** 1945)

Keys, Ancel, Ph.D. Univ. of Minnesota, Stadium Gate 27, Minneapolis 14. *Prof. and Dir. of Lab. of Physiological Hygiene.* (**1,** 1939; **2,** 1936)

Kibrick, Andre C., Ph.D. Bronx Hospital, 169th St. and Fulton Ave., New York City 56. *Head, Dept. of Chemistry.* (**2,** 1950)

Kidd, John G., M.D. Cornell Univ. Med. College, 1300 York Ave., New York City 32. *Prof. of Pathology; Pathologist, New York Hospital.* (**4,** 1937; **6,** 1937)

Kidder, George W., Ph.D. Amherst College, Amherst, Mass. *Stone Prof. of Biology.* (**2,** 1949)

Kies, Marian W., Ph.D. Agricultural Research Center, North Bldg., Beltsville, Md. *Biochemist, Bureau of Agricultural and Industrial Chemistry,* (**2,** 1948)

Kik, M. C., Ph.D. Univ. of Arkansas College of Agriculture, Fayetteville. *Assoc. Prof. of Agricultural Chemistry.* (**5,** 1942)

Kilborn, Leslie G., M.D., Ph.D. 47 Warren Rd., Toronto, Ontario, Canada. At present: West China Union Univ., Chengtu, Sze., China. (**1,** 1928)

Kilham, Lawrence, M.D., Natl. Insts. of Health, Bethesda 14, Md. *Surgeon, USPHS.* (**6,** 1950)

Killian, John Allen, Ph.D. Killian Research Labs., Inc., 49 W. 45th St., New York City. (**2,** 1921)

Kimura, Kazuo K., Ph.D. St. Louis Univ. School of Medicine, Dept. of Pharmacology, St. Louis 4, Mo. *Instructor.* (**3,** 1950)

Kinard, F. W., Ph.D., M.D. Med. College of the State of South Carolina, Charleston 16. *Assoc. Prof. of Physiology.* (**1,** 1947)

King, Barry G., Ph.D. Dept. of Commerce, Civil Aeronautics Admin., Med. Service, Safety Regulations, Washington, D. C. *Chief, Aeromed. Design and Material Div.* (**1,** 1938)

King, Charles Edwin, Ph.D. Vanderbilt Univ., Nashville, Tenn. *Assoc. Prof. of Physiology.* (**1,** 1916)

King, Charles Glen, Ph.D. Nutrition Foundation, Inc., Chrysler Building, New York City. *Scientific Dir.; Prof. of Chemistry, Columbia Univ.* **2,** 1931; **5,** 1933)

King, Henry Eugene, Ph.D. Tulane Univ. School of Medicine, Dept. of Psychiatry and Neurology, 1430 Tulane Ave., New Orleans 12, La. *Asst. Prof.; Visiting Scientist, Charity Hospital of Louisiana.* (**1,** 1950)

King, Jesse, Ph.D. Towson, Md. (**1R,** 1914)

King, Joseph T., M.D., Ph.D. Univ. of Minnesota Med. School, 314 Millard Hall, Minneapolis. *Assoc. Prof. of Physiology.* (**1,** 1931)

Kinney, Thomas D., M.D. Cleveland City Hospital, 3395 Scranton Rd., Cleveland, Ohio. *Pathologist-in-Chief; Prof. of Pathology, Western Reserve Univ.* (**4,** 1950)

Kirch, Ernst R., Ph.D. Univ. of Illinois College of Pharmacy, 808 S. Wood St., Chicago 12, Ill. *Assoc. Prof. of Chemistry.* (**2,** 1948)

Kirchhof, Anton C., M.S., M.D. 758 S. View Rd., Oswego, Ore. Anesthesiologist, Providence, Veterans, and Matson Memorial Hospitals. (**3,** 1947)

Kirk, John E., M.D. Washington Univ. School of Medicine, 5600 Arsenal St., St. Louis 9, Mo. *Dir. of Research, Div. of Gerontology; Assoc. Prof. of Medicine.* (**2,** 1950)

Kirk, Paul L., Ph.D. Univ. of California, Berkeley. *Prof. of Biochemistry.* (**2,** 1933)

Kirschbaum, Arthur, M.D., Ph.D. Univ. of Min-

nesota Med. School, Minneapolis. *Assoc. Prof. of Anatomy.* (**4,** 1948)

Kisch, Bruno, M.D. Yeshiva Univ., New York City. *Prof. of Biochemistry.* (**1,** 1943)

Kleiber, M., D.Sc. Univ. of California, Davis. *Prof. of Animal Husbandry.* (**1,** 1943; **5,** 1933)

Klein, J. Raymond, Ph.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Sr. Biochemist, Dept. of Biology.* (**2,,** 1941)

Kleiner, Israel Simon, Ph.D. New York Med. College and Flower and Fifth Ave. Hospitals, New York City 29. *Prof. of Biochemistry, Dir., Dept. of Physiology and Biochemistry.* (**1,** 1911; **2,** 1912; **3R,** 1912; **5R,** 1933)

Kleitman, Nathaniel, Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Physiology.* (**1,** 1923)

Klemperer, Friedrich Wilhelm, M.D. Trudeau Foundation, Trudeau, N. Y. *Head of Dept. of Biochemistry.* (**2,** 1941)

Kletzien, Seymour W., Ph.D. 330 S. Ninth St., Philadelphia, Pa. Nutrition Research Clinic, Philadelphia Lying-In and Pennsylvania Hospitals. *Biochemist.* (**5,** 1933)

Kline, O. L., Ph.D. Federal Security Agency, Food and Drug Admin., Washington, D. C. *Biochemist.* (**5,** 1936)

Kline, Raymond F., M.S. Route 1, Box 69, Fairborn, Ohio. (**1,** 1946)

Klotz, Irving M., Ph.D. Northwestern Univ., Evanston, Ill. *Prof. of Chemistry.* (**2,** 1947)

Klüver, Heinrich, Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Exper. Psychology.* (**1,** 1935)

Knight, C. Arthur, Ph.D. Univ. of California, Virus Lab., Berkeley 4. *Assoc. Prof.* (**2,** 1946)

Knisely, Melvin H., Ph.D. Med. College of South Carolina, Charleston. *Chairman of Dept. of Anatomy.* (**1,** 1949)

Knoefel, Peter K., M.A., M.D. Univ. of Louisville, 101 W. Chestnut St., Louisville, Ky. *Prof. and Chairman of Dept. of Pharmacology.* (**3,** 1934)

Knowlton, Frank P., M.D. Syracuse Univ. College of Medicine, Syracuse, N. Y. *Prof. Emeritus of Physiology.* (**1R,** 1911)

Knowlton, G. Clinton, Ph.D. Emory Univ., Room 101, Physiology Bldg., Emory University, Ga. (**1,** 1938)

Knox, W. Eugene, M.D. 3026 S. California Ave., Chicago 8, Ill. *Research Assoc., Rheumatic Fever Research Inst., Northwestern Univ. Med. School.* (**2,** 1948)

Knudson, Arthur, Ph.D. Albany Med. College, New Scotland Ave., Albany, N. Y. *Prof. of Biochemistry and Assoc. Dean.* (**2,** 1919; **5,** 1936)

Knutti, Ralph Eddy, M.D. Children's Hospital, Los Angeles, Calif. *Dir. of Labs.; Asst. Prof. of Pathology, Univ. of Southern California.* (**4,** 1933)

Kober, Philip A., B.S. Sherman Labs., Detroit, Mich. *Dir. of Research.* (**2,** 1912)

Kobrak, Heinrich G., Ph.D. Univ. of Chicago, Chicago, Ill. *Asst. Prof. of Surgery.* (**1,** 1948)

Kochakian, Charles D., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Assoc. Prof. of Physiology.* (**1,** 1942; **2,** 1948)

Kocher, Rudolph Alfred, M.D. Box 936, Carmel, Calif. *Dir. of Velie Metabolic Clinic.* (**2,** 1915)

Kocholaty, Walter F., Ph.D. Field Research Lab., Med. Dept., Fort Knox, Ky. *Biochemist, Dept. of Biochemistry.* (**2,** 1950)

Koehler, Alfred E., M.D., Ph.D. 317 W. Pueblo St., Santa Barbara, Calif. *Physician, Sansum Clinic, Santa Barbara Cottage Hospital.* (**2,** 1924)

Koehn, Carl J., Ph.D. Surgeon General's Office, Preventive Medicine Div., Washington, D. C. *Chief, Nutrition Branch.* (**5,** 1949)

Koehne, Martha, Ph.D. 285 15th Ave., Apt. 22, Columbus, Ohio. *Nutritionist, Ohio State Dept. of Health.* (**5,** 1933)

Koelle, George B., Ph.D., M.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Pharmacology, 630 W. 168th St., New York City 32. *Asst. Prof.* (**3,** 1947)

Koepf, George F., M.D. 537 Delaware Ave., Buffalo 2, N. Y. *Assoc. in Physiology, Univ. of Buffalo.* (**1,** 1942)

Koerber, Walter L., Ph.D. E. R. Squibb and Sons, New Brunswick, N. J. *Asst. Dept. Head.* (**6,** 1943)

Kohlstaedt, Kenneth G., M.D. Lilly Lab. for Clinical Research, Indianapolis General Hospital, Indianapolis 7, Ind. *Director.* (**1,** 1947)

Kohn, Henry I., Ph.D., M.D. Univ. of California Hospital, Radiology Dept., San Francisco. *Sr. Surgeon, USPHS.* (**1,** 1940)

Kolmer, John A., M.S., M.D., D.P.H. 2101 Pine St., Philadelphia, Pa. *Prof. of Medicine, Temple Univ.; Dir., Research Inst. of Cutaneous Medicine.* (**6,** 1913)

Komarov, Simon A., M.D., Ph.D. S.S. Fels Fund, Med. Research Lab., 255 S. 17th St., Philadelphia, Pa. *Dir. of Dept. of Biochemistry, Temple Univ. School of Medicine.* (**1,** 1933)

Kopeloff, Nicholas, Ph.D. New York State Psychiatric Inst., 722 W. 168th St., New York City. *Principal Research Bacteriologist, New York State Psychiatric Inst. and Hospital.* (**6,** 1937)

Koppanyi, Theodore, Ph.D. Georgetown Univ., Washington, D. C. *Prof. of Pharmacology.* (**1,** 1924; **3,** 1935)

Koprowski, Hilary, M.D. Lederle Labs. Div., American Cyanamid Co., Pearl River, N. Y. *Asst. Dir., Viral and Rickettsial Research.* (**6,** 1946)

Kornberg, Arthur, M.D. Natl. Insts. of Health, Bethesda 14, Md. *Sr. Surgeon.* (**2,** 1949)

Korr, Irwin M., Ph.D. Kirksville College of Osteopathy and Surgery, Kirksville, Mo. *Prof. of Physiology.* (**1,** 1939)

Koshland, Marian Elliott, Ph.D. Harvard Med. School, Dept. of Bacteriology and Immunology, Boston, Mass. (**6,** 1950)

Kosman, A. J., Ph.D. Northwestern Univ. Med. School, Dept. of Physiology, 303 E. Chicago Ave., Chicago 11, Ill. *Asst. Prof.* (**1,** 1949)

Koster, Rudolf, Ph.D. Tulane Univ., Dept. of Pharmacology, Station 20, New Orleans, La. *Asst. Prof.* (**3,** 1949)

Kottke, Frederic J., Ph.D., M.D. Univ. of Minnesota, Minneapolis. *Baruch Fellow in Physical Medicine.* (**1,** 1947)

Kozelka, Frank L., Ph.D. Univ. of Wisconsin, Dept. of Pharmacology and Toxicology, Madison. *Assoc. Prof. of Toxicology.* (**3,** 1939)

Kraatz, Charles P., Ph.D. Jefferson Med. College, 1025 Walnut St., Philadelphia, Pa. *Assoc. Prof. of Pharmacology.* (**3,** 1950)

Krahl, Maurice E., Ph.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Assoc. Prof. of Biological Chemistry.* (**2,** 1939; **3,** 1949)

Krakower, Cecil Alexander, M.D. Univ. of Illinois College of Medicine, 1853 West Polk St., Chicago. *Prof. of Pathology.* (**4,** 1945)

Kramer, Benjamin, A.M., M.D. 60 Plaza St., Brooklyn 17, N. Y. *Pediatrician-in-Chief, Brooklyn Jewish Hospital; Prof. of Clin. Pediatrics, Long Island College Med. School.* (**1,** 1915; **2,** 1914)

Kramer, Martha, Ph.D. Kansas State College, Manhattan. *Asst. Dean, School of Home Economics.* (**5,** 1933)

Kramer, S. D., M.D., Ph.D. 92 Washington Sq. East, Salem, Mass. *Virologist.* (**6,** 1944)

Krampitz, Lester O., Ph.D. Western Reserve Univ., 2109 Adelbert Rd., Cleveland 6, Ohio. *Head, Dept. of Microbiology.* (**2,** 1946; **6,** 1949)

Krantz, John C., Jr., Ph.D. Univ. of Maryland Med. School, Baltimore. *Prof. of Pharmacology.* (**3,** 1937)

Kratzer, F. H., Ph.D. Univ. of California, Div. of Poultry Husbandry, Davis. *Asst. Prof.* (**5,** 1949)

Krauss, William E., Ph.D. Ohio Agricultural Exper. Station, Wooster. *Assoc. Dir.* (**2,** 1932; **5,** 1933)

Kraybill, Henry R., Ph.D. 5720 Woodlawn Ave., Chicago 37, Ill. *Professorial Lecturer, Dept. of Biochemistry, Univ. of Chicago; Dir., Dept. of Scientific Research, American Meat Inst. Foundation.* (**2,** 1942)

Krayer, Otto, M.D. Harvard Med. School, 25 Shattuck St., Boston, Mass. *Assoc. Prof. and Head of Dept. of Comparative Pharmacology.* (**3,** 1938)

Kreezer, George L., Ph.D. Washington Univ., St. Louis 10, Mo. *Assoc. Prof. of Psychology.* (**1,** 1948)

Krehl, Willard A., Ph.D. Yale Univ., 333 Cedar St., New Haven, Conn. *Asst. Prof. of Nutrition.* (**2,** 1947; **5,** 1949)

Krop, Stephen, Ph.D. Warner Inst. for Therapeutic Research, Dept. of Pharmacology, 113 W. 18th St., New York City. *Dir. of Dept. of Pharmacology and Chemotherapy.* (**1,** 1949; **3,** 1944)

Krueger, Albert Paul, M.D. Univ. of California, Berkeley. *Prof. and Chairman, Dept. of Bacteriology;* Scientific Dir., Naval Biological Lab. (**4,** 1930; **6,** 1937)

Krueger, Hugo, Ph.D. Oregon State College, Dept. of Zoology, Corvallis. *Prof. of Physiology.* (**1,** 1931; **3,** 1935)

Krumbhaar, Edward B., M.D., Ph.D. Univ. of Pennsylvania Med. School, Philadelphia. *Prof. Emeritus of Pathology.* (**1R,** 1914; **4,** prior to 1920)

Kruse, Harry Dayton, M.D., Sc.D. Milbank Memorial Fund, 40 Wall St., New York City. (**2,** 1933; **5,** 1950)

Kruse, Theophile K., Ph.D. Univ. of Pittsburgh Med. School, Pittsburgh, Pa. *Prof. of Physiology and Pharmacology.* (**1,** 1919; **3,** 1920)

Kubicek, William G., Ph.D. Univ. of Minnesota Hospitals, Div. of Physical Medicine, Minneapolis. *Assoc. Prof.* (**1,** 1947)

Kubie, Lawrence S., M.D. 7½ E. 81st. St., New York City 28. *Clin. Prof. of Psychiatry and Mental Hygiene, Yale Univ. School of Medicine; Faculty, N. Y. Psychoanalytic Inst.* (**4,** 1928)

Kuffler, Stephen W., M.D. Johns Hopkins Med. School, Wilmer Inst., Baltimore 5, Md. *Assoc. Prof. of Physiological Optics.* (**1,** 1949)

Kuhn, Harry A., M.S. 3915 Fulton St. N. W., Washington, D. C. *Consultant.* (**3,** 1927)

Kuhn, L. Roland, Ph.D. Army Med. Center, AMDR. GS., Washington 12, D. C. *Chief, Dept. of Bacteriology.* (**6,** 1939)

Kuiken, Kenneth A., Ph.D. A & M College of Texas, College Station. *Assoc. Prof., Dept. of Biochemistry and Nutrition.* (**2,** 1950)

Kuizenga, Marvin H., Ph.D. Upjohn Company, Kalamazoo, Mich. *Head of Dept. of Pharmacology-Endocrinology.* (**2,** 1947)

Kun, Ernest, M.D. Tulane Univ., Dept. of Medicine, 1430 Tulane Ave., New Orleans 12, La. *Asst. Prof.* (**3,** 1949)

Kunde, Margarete M., Ph.D., M.D. 30 N. Michigan Ave., Suite 1308, Chicago, Ill. *Instr. in Medicine, Northwestern Univ. Med. School; Clin. Asst. in Endocrinology, Cook County Hospital.* (**1,** 1924)

Kunitz, Moses, Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member.* (**2,** 1947)

Kupperman, Herbert S., M.D., Ph.D. New York Univ. College of Medicine, Dept. of Thera-

peutics, 477 First Ave., New York City. *Research Assoc.* (**3,** 1950)

Kurtz, Alton C., Ph.D. Univ. of Oklahoma Med. School, Dept. of Biochemistry, Oklahoma City. *Assoc. Prof.* (**2,** 1942)

Kuyper, Adrian C., Ph.D. Wayne Univ. College of Medicine, Detroit 26, Mich. *Asst. Prof. of Physiological Chemistry.* (**2,** 1946)

Kydd, David M., M.D. Yale Univ. School of Medicine, New Haven, Conn. *Assoc. Prof. of Medicine.* (**5,** 1934)

Kyes, Preston, Sc.D., M.D. North Jay, Maine. *Prof. Emeritus.* (**6R,** 1918)

Kyker, Granvil C., Ph.D. Univ. of Puerto Rico, School of Medicine, San Juan. *Prof. and Head, Dept. of Biochemistry and Nutrition.* (**2,** 1947)

LaBelle, Annette, B.A., 271 Alta Vista Dr., Tuckahoe 7, N. Y. (**1,** 1948)

Lackey, Robert W., Ph.D. Southwestern Med. College, Dept. of Physiology and Pharmacology, Dallas 4, Texas. *Prof. of Physiology.* (**1,** 1947)

Lacorte, Jose G., M.D. Instituto Oswaldo Cruz, Rio de Janeiro, Brazil, S. A. *Dir., Virus Section, Oswaldo Cruz Inst.* (**6,** 1946)

Lacy, G. R., M.D. Univ. of Pittsburgh, Pittsburgh, Pa. *Prof. of Bacteriology and Immunology.* (**4,** 1927)

Lalich, Joseph J., M.D. Univ. of Wisconsin, 426 N. Charter St., Madison 6. *Assoc. Prof. of Pathology.* (**4,** 1946)

Lamb, Alvin R., Ph.D. Hawaiian Sugar Planters' Assoc., Exper. Station, Honolulu. *Research Assoc.* (**2,** 1923; **5,** 1934)

Lambert, Edward H., Ph.D., M.D. Mayo Foundation, Rochester, Minn. *Asst. Prof. of Physiology.* (**1,** 1945)

Lambert, Robert A., M.D. Bricks Springs, Greensboro, Ala. *Consultant, Pan American Sanitary Bureau, Regional Office of World Health Organization.* (**4,** 1922)

Lambertsen, Christian J., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia, Pa. *Asst. Prof. of Pharmacology;* (**3,** 1948)

Lampen, J. Oliver, Ph.D. Western Reserve Univ. School of Medicine, Cleveland 6, Ohio. *Assoc. Prof. of Microbiology.* (**2,** 1947)

Lamport, Harold, M. D. Yale Univ. School of Medicine, New Haven, Conn. *Assoc. Prof. of Physiology.* (**1,** 1943)

Lamson, Paul Dudley, M.D. Vanderbilt Univ. Med. School, Nashville, Tenn. *Prof. of Pharmacology.* (**1,** 1921; **3,** 1915)

Lancefield, Rebecca C., Ph.D. 66th St. and York Ave., New York City 21. *Assoc. Member, Rockefeller Inst. for Med. Research.* (**6,** 1933)

Landis, Carney, Ph.D. Columbia Univ., Psychiatric Inst., 722 W. 168th St., New York City. *Principal Research Psychologist and Prof. of Psychology.* (**1,** 1939)

Landis, Eugene Markley, Ph.D., M.D. Harvard Med. School, Dept. of Physiology, 25 Shattuck St., Boston, Mass. *George Higginson Prof. of Physiology.* (**1,** 1928)

Landowne, Milton, M.D. 6101 Stewart Ave., Baltimore 9, Md. *Assoc. Chief, Cardiovascular Disease and Gerontology Section, Baltimore City Hospital.* (**1,** 1947)

Lands, Alonzo, M., Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Head, Pharmacology Section.* (**1,** 1942; **3,** 1947)

Lange, Carl, M.D. 371 Morris St., Albany, N. Y. *Assoc. Bacteriologist, Divs. of Labs. and Public Health, N. Y. State Dept. of Health.* (**6,** 1938)

Langley, Wilson D., Ph.D. Univ. of Buffalo Med. School, 24 High St., Buffalo, N. Y. *Prof. of Biochemistry.* (**2,** 1937)

Langworthy, Orthello R., M.A., M.D. Johns Hopkins Hospital, Baltimore, Md. *Assoc. Prof. of Psychiatry, Johns Hopkins Univ.* (**1,** 1928)

Lanni, Frank, Ph.D. Duke Univ. School of Medicine, Durham, N. C. *Research Assoc.* (**6,** 1949)

Lardy, Henry A., Ph.D. Inst. for Enzyme Research, Univ. of Wisconsin, Madison 6. *Prof. of Biochemistry.* (**2,** 1946)

Larrabee, Martin G., Ph.D. Johns Hopkins Univ., Biophysics Dept., Baltimore 18, Md. *Assoc. Prof.* (**1,** 1940)

Larsen, Eleanor M., Ph.D. Univ. of Wisconsin, Dept. of Physiology, S. M. I., Madison 6. *Instr. in Physiology.* (**1,** 1949)

Larson, Carl L., M.D. Natl. Insts. of Health, Div. of Infectious Diseases, Bethesda, Md. *Surgeon, USPHS.* (**6,** 1948)

Larson, Edward, Ph.D. Med. Research, Unit of the Veterans Hospital, Coral Gables, Fla. *Prof. of Physiology and Pharmacology.* (**1,** 1929; **3,** 1937)

Larson, Hardy W., Ph.D. Metropolitan Life Insurance Co., Biochemical Lab., 1 Madison Ave., New York City. *Research Chemist.* (**2,** 1937)

Larson, Paul S., Ph.D. Med. College of Virginia, Richmond. *Research Prof. of Pharmacology.* (**1,** 1939; **3,** 1947)

Lashley, K. S., Ph.D. Yerkes Labs., Orange Park, Fla. *Research Prof. of Neuropsychology, Harvard Univ.; Dir., Yerkes Labs. of Primate Biology, Inc.* (**1,** 1923)

Laskowski, M., Ph.D. Marquette Univ. Med. School, Milwaukee 3, Wis. *Assoc. Prof. of Biochemistry.* (**2,** 1944)

Last, Jules H., Ph.D., M.D. Northwestern Univ. Med. School, Chicago, Ill. *Asst. Prof. Exper. Medicine.* (**3,** 1948)

Lauffer, Max A., Jr., Ph.D. Univ. of Pittsburgh, Pittsburgh 13, Pa. *Research Prof. and Head of Dept. of Biophysics.* (**2,** 1946)

Laug, E. P., Ph.D. Food and Drug Admin., Div. of Pharmacology, 12th and C Sts. S. W., Washington 25, D. C. *Pharmacologist.* (**2,** 1938; **3,** 1947)

Laurens, Henry D., Ph.D., M.D. Box 157, Flatrock, N. C. (**1R,** 1913)

Lauson, Henry D., Ph.D., M.D., New York Hospital, Dept. of Pediatrics, 525 E. 68th St., New York City 21. *Associate.* (**1,** 1946)

Lavine, T. F., Ph.D. Lankenau Hospital Research Inst., Philadelphia, Pa. *Research Chemist.* (**2,** 1938)

Lawrence, W. Sherwood, M.D. 906 Hazel St., Gridley, Calif. *Physician and Surgeon.* (**3,** 1944)

Lawson, Hampden, M.D., Ph.D. Univ. of Louisville, Louisville, Ky. *Prof. of Physiology.* (**1,** 1933)

Lawton, Alfred H., M.D., Ph.D. Veterans Admin., Bureau of Medicine and Surgery, Washington, D. C. *Acting Asst. Chief Med. Dir.* (**1,** 1949; **3,** 1948)

Leake, Chauncey D., Ph.D. Univ. of Texas Med. Branch, Galveston, *Vice-Pres. of Univ. of Texas in Charge of Med. Program.* (**1,** 1923; **3,** 1924)

Leathem, James H., Ph.D. Rutgers Univ., New Brunswick, N. J. *Prof. of Zoology.* (**1,** 1945)

Leathes, John Beresford, M.A., M.B. Westfield Ware Lane, Lyme Regis, Dorset, England. *Emeritus.* (**2,** 1909)

Lederer, Ludwig George, Ph.D., M.D. Pennsylvania Central Airlines, Natl. Airport, Washington, D. C., *Med. Dir.* (**1,** 1940)

Lee, Douglas H. K., M.D. Johns Hopkins Univ., I. Bowman School of Geography, Baltimore 18, Md. *Prof. of Physiological Climatology; Lecturer in Physiological Hygiene.* (**1,** 1949)

Lee, Milton O., Ph.D. 2101 Constitution Ave., Washington 25, D. C. *Exec. Sec. and Managing Editor, American Physiological Society; Federation Sec.* (**1,** 1927; **5,** 1933)

Lee, Richard E., Ph.D., M.D. New York Hospital, Dept. of Medicine, New York City 21. *Fellow in Medicine, Cornell Univ. College of Medicine.* (**1,** 1950)

Leese, Chester E., Ph.D. George Washington Univ. School of Medicine, Washington, D. C. *Assoc. Prof. of Physiology.* (**1,** 1934)

LeFevre, Paul G., Ph.D. Univ. of Vermont College of Medicine, Dept. of Physiology and Biophysics, Burlington. *Asst. Prof.* (**1,** 1950)

Lehman, Arnold J., Ph.D., M.D. Food and Drug Admin., Washington 25, D. C. *Chief, Div. of Pharmacology.* (**3,** 1937)

Lehman, Robert A., Ph.D. Campbell Pharmaceutical Co., 254 W. 31st St., New York City 1. *Dir. of Research.* (**3,** 1942)

Lehninger, Albert L., Ph.D. Univ. of Chicago Med. School, 950 E. 59th St., Chicago 37, Ill. *Assoc. Prof. of Biochemistry in Depts. of Biochemistry and Surgery.* (**2,** 1946)

Lehr, David, M.D. New York Med. College, Flower and Fifth Ave. Hospitals, Fifth Ave. at 105th St., New York City 29. *Assoc. Prof. in Pharmacology and Medicine.* (**3,** 1947)

Leichsenring, Jane M., Ph.D. Univ. of Minnesota, Univ. Farm, St. Paul. *Prof. of Nutrition.* (**5,** 1948)

Leimdorfer, Alfred, M.D. Univ. of Illinois College of Medicine, Dept. of Psychiatry, Chicago 12. *Assoc. Prof.* (**1,** 1947)

Lein, Allen, Ph.D. Northwestern Univ. Med. School, Dept. of Physiology, Chicago 11, Ill. *Asst. Prof.* (**1,** 1946)

Lenhart, Carl H., M.D. Lakeside Hospital, 2065 Adelbert Rd., Cleveland, Ohio. *Oliver H. Payne Prof. of Surgery, Western Reserve Univ.* (**1,** 1921)

Lennette, Edwin H., Ph.D., M.D. California State Dept. of Public Health, Berkeley. *Dir., Viral and Rickettsial Disease Lab.; Lecturer in Virology, School of Public Health, Univ. of California.* (**4,** 1941; **6,** 1947)

Leonard, Clifford Shattuck, Ph.D. 286 Whitefield St., Guilford, Conn. *Technical Assoc., Chemical-Biological Coordination Center, Natl. Research Council.* (**3,** 1927)

Leonards, Jack Ralph, Ph.D. Western Reserve Univ. Med. School, Cleveland, Ohio. *Asst. Prof. of Biochemistry.* (**2,** 1948)

Le Page, G. A., Ph.D. Univ. of Wisconsin, McArdle Memorial Lab. for Cancer Research, Madison 6. *Assoc. Prof. of Oncology.* (**2,** 1949)

Lepkovsky, Samuel, Ph.D. Univ. of California, Poultry Div., Berkeley 4. *Prof. of Poultry Husbandry.* (**2,** 1933; **5,** 1933)

L'Esperance, Elise L., M.D. 2 East 61st St., New York City. *Dir., Strong Cancer Precaution Clinic, Memorial Hospital, and New York Infirmary.* (**6,** 1920)

Leverton, Ruth M., Ph.D. Univ. of Nebraska, Dept. of Home Economics, Lincoln. *Assoc. Prof. of Human Nutrition Research.* (**5,** 1942)

Levin, Louis, Ph.D. Columbia Univ., College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Asst. Prof. of Anatomy.* (**2,** 1939)

Levine, Harold, Ph.D. 941 E. Sylvan Ave., Milwaukee 11, Wis. (**2,** 1933; **5,** 1933).

Levine, Milton, Ph.D. Kabat-Kaiser Inst., 2600 Alameda St., Vallejo, Calif. *Dir. of Research.* (**6,** 1942)

Levine, Philip, M.D. Ortho Research Foundation, Raritan, N. J. *Dir., Biologic Div.* (**6,** 1925)

Levine, Rachmiel, M.D. Michael Reese Hospital, Chicago, Ill. *Acting Dir., Dept. of Metabolic Research; Professorial Lecturer in Physiology, Univ. of Chicago.* (**1,** 1942)

Levine, Samuel Z., M.D., New York Hospital, 525 E. 68th St., New York City. *Prof. of Pediatrics, Cornell Univ. Med. College; Pediatrician-in-Chief, New York Hospital.* (**5,** 1933)

Levine, Victor Emanuel, Ph.D., M.D. Creighton Univ. School of Medicine, Omaha, Nebr. *Prof. of Biological Chemistry and Nutrition.* (**2,** 1936)

Levinson, Samuel A., Ph.D., M.D. Univ. of Illinois College of Medicine, 808 S. Wood St., Chicago. *Prof. of Pathology; Dir. of Labs., Research and Educational Hospital.* (**4,** 1938)

Levison, Louis A., M.D. 421 Michigan St., Toledo, Ohio. *Physician to Toledo and St. Vincent Hospitals.* (**6,** 1916)

Levy, Milton, Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City. *Assoc. Prof. of Chemistry.* (**2,** 1933)

Levy, Robert L., M.D. 730 Park Ave., New York City. *Prof. of Clin. Medicine, Columbia Univ. College of Physicians and Surgeons.* (**3,** 1915)

Lewey, F. H., M.D. 3400 Spruce St., Philadelphia 4, Pa. *Prof. of Neuroanatomy, Univ. of Pennsylvania Grad. School of Medicine; Assoc. in Neuropathology and Neurosurgery, Med. School.* (**1,** 1937)

Lewis, George T., Ph.D. Emory Univ. School of Dentistry, Dept. of Biochemistry, Emory Univ., Ga. *Professor.* (**2,** 1949)

Lewis, Gladys Kinsman, Ph.D. 401 S. Lafayette St., Denver 9, Colo. *Nutrition Consultant, Colorado State Dept. of Health.* (**5,** 1944)

Lewis, Howard Bishop, Ph.D. Univ. of Michigan Med. School, Ann Arbor. *John Jacob Abel Univ. Prof. of Biological Chemistry.* (**1,** 1925; **2,** 1913; **5,** 1933)

Lewis, James C., Ph.D. U. S. Dept of Agriculture, Western Regional Research Lab., Albany 6, Calif. *Biochemist.* (**2,** 1946)

Lewis, Jessica H., M.D. Univ. of North Carolina School of Medicine, Dept. of Physiology, Chapel Hill. *Research Assoc.* (**1,** 1949)

Lewis, John R., Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Research Assoc. in Pharmacology.* (**3,** 1950)

Lewis, Julian Herman, M.D. 4750 Champlain Ave., Chicago, Ill. *Assoc. Prof. of Pathology, Univ. of Chicago; Member, Otho S. A. Sprague Memorial Inst.* (**4,** 1924)

Lewis, Lena A., Ph.D. Cleveland Clinic, Euclid Ave. and E. 93rd St., Cleveland 6, Ohio. *Research Staff.* (**1,** 1946)

Lewis, Robert C., Ph.D. Univ. of Colorado, 4200 E. 9th Ave., Denver. *Prof. of Biochemistry; Dean, School of Medicine.* (**2,** 1931; **5,** 1933)

Lewis, Warren H., M.D. Wistar Inst. of Anatomy and Biology, Philadelphia, Pa. *Member.* (**1R,** 1919)

Ley, Herbert Leonard, Jr., M.D. Army Med. Center, AMDR & GS, Dept. Virus and Rickettsial Diseases, Washington 12, D. C. *Assistant.* (**6,** 1949)

Li, Choh Hao, Ph.D. Univ. of California, 4596 Life Sciences Bldg., Berkeley. *Prof. of Biochemistry.* (**2,** 1944)

Li, Richard C., M.D. c/o Dr. T. S. Yu, 392 MaDang Rd., Shanghai 25, China. *Guest in Dept. of Pharmacology, Natl. Med. College of Shanghai.* (**3,** 1941)

Libby, Raymond L., Ph.D. Veterans Admin., Wilshire and Sawtelle Blvds., Los Angeles 25, Calif. *Assoc. Prof. of Radio Biology, Univ. of California Med. School; Chief of Isotope Section, Veterans Hospital, Los Angeles.* (**6,** 1938)

Liberson, W. T., M.D. Inst. of Living, Hartford, Conn. *Neurophysiologist.* (**1,** 1948)

Libet, Benjamin, Ph.D. Univ. of California Med. Center, Dept. of Anatomy, San Francisco. *Asst. Prof. of Physiology, Med. School.* (**1,** 1942)

Licklider, J. C. R., Ph.D. Massachusetts Inst. of Technology, Acoustics Lab., Cambridge. (**1,** 1938)

Liddell, Howard S., Ph.D. Cornell Univ., Ithaca, N. Y. *Prof. of Psychology.* (**1,** 1925)

Lieb, Charles C., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City. *Hosack Prof. of Pharmacology.* (**1R,** 1936; **3R,** 1915)

Lieberman, Arnold L., M.D., Ph.D. 328 No. Country Club Rd., Tucson, Ariz. (**1,** 1934)

Lieberman, Seymour, Ph.D. Columbia Univ., College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Asst. Prof. of Biochemistry assigned to Obstetrics and Gynecology.* (**2,** 1948)

Lifson, Nathan, M.D., Ph.D. 6129 Wentworth Ave., S., Minneapolis, Minn. *Prof. of Physiology, Univ. of Minnesota Med. School.* (**1,** 1944)

Lightbody, Howard D., Ph.D. QM Food and Container Inst. for the Armed Forces, 1849 W. Pershing Rd., Chicago 9, Ill. *Dir. of Food Labs.* (**2,** 1936)

Ligon, Edgar Williams, Jr., Ph.D. Production and Marketing Admin., Insecticide Div., Agricultural Research Center, Beltsville, Md. *Pharmacologist.* (**3,** 1948)

Lilienthal, Joseph L., Jr., M.D. Johns Hopkins Hospital, Baltimore 5, Md. *Assoc. Prof. of Medicine.* (**1,** 1945)

Lillie, Ralph Stayner, Ph.D. Physiological Labs., Univ. of Chicago, Chicago 37, Ill. *Prof. Emeritus of Physiology.* (**1R,** 1905; **2,** 1913)

Lillie, R. D., M.D. Pathology and Pharmacology Lab., E.B.M.I., Natl. Insts. of Health, Bethesda, Md. *Chief; Med. Dir., USPHS.* (**4,** 1941)

Lilly, John C., M.D. 3400 Spruce St., Philadelphia 4, Pa. *Asst. Prof. in Biophysics, E. R. Johnson Foundation for Med. Physics, Univ. of Pennsylvania, School of Medicine.* (**1,** 1950)

Lim, Robert Kho-Seng, M.B., Ph.D., D.Sc. Creighton Univ. School of Medicine, Omaha 2, Nebr. *Prof. of Physiology.* (**1,** 1923)

Lindeman, V. F., Ph.D. Syracuse Univ., 16 Lyman Hall, Syracuse, N. Y. *Prof. of Zoology,* (**1,** 1949)

Lindsay, Stuart, M.D. Univ. of California Med. School, Univ. Hospital, San Francisco 22. *Assoc. Prof. and Pathologist.* (**4,** 1949)

Lindsley, Donald B., Ph.D. Northwestern Univ., Evanston, Ill. *Prof. of Psychology.* (**1,** 1937)

Linegar, Charles R., Ph.D. E. R. Squibb and Sons, Research and Development Labs., New Brunswick, N. J. *Dir., Pharmacological Development Div.,* (**3,** 1938)

Lineweaver, Hans, Ph.D. U. S. Dept. of Agriculture, Western Regional Research Lab., Albany 6, Calif. *Head of Poultry Products Div.* (**2,** 1941)

Link, Karl Paul, Ph.D. Univ. of Wisconsin, Biochemistry Bldg., Madison. *Prof. of Biochemistry.* (**2,** 1931)

Lintz, William, M.D. 36 Plaza St., Brooklyn, N. Y. *Late Prof. of Immunology and Bacteriology and Clin. Prof. of Medicine, Long Island College of Medicine.* (**6,** 1920)

Lipman, Mrs. Miriam O., A.M. Presbyterian Hospital, Dept. of Medicine, 620 W. 168th St., New York City. *Research Asst., Edward Daniels Faulkner Arthritis Clinic.* (**6,** 1931)

Lipmann, Fritz, M.D., Ph.D. Massachusetts General Hospital, Biochemical Research Lab., Boston 14. *Head; Prof. of Biological Chemistry, Harvard Med. School.* (**2,** 1941)

Lippincott, Stuart W., M.D. Univ. of Washington School of Medicine, Seattle. *Chairman, Dept. of Pathology.* (**4,** 1947)

Lippman, Richard W., M.D. 4751 Fountain Ave., Los Angeles 27, Calif. *Research Assoc., Inst. for Med. Research, Cedars of Lebanon Hospital.* (**1,** 1950)

Lipton, Morris A., Ph.D., M.D. Univ. of Chicago, Dept. of Medicine, 950 E. 59th St., Chicago 37, Ill. *Fellow, Psychiatry.* (**2,** 1946)

Lisco, Hermann, M.D. Argonne Natl. Lab., Chicago 80, Ill. *Dir., Med. Div.; Asst. Prof. of Pathology, Univ. of Chicago.* (**4,** 1947)

Litchfield, John T., Jr., M.D. American Cyanamid Co., 1937 W. Main St., Stamford, Conn. *Pharmacologist.* (**3,** 1940)

Little, James Maxwell, Ph.D. Bowman Gray School of Medicine of Wake Forest College, Winston-Salem, N. C. *Prof. of Pharmacology; Assoc. Prof. of Physiology.* (**1,** 1942; **3,** 1947)

Little, Robert C., M.D. Univ. of Tennessee, Dept. of Physiology, Memphis. *Asst. Prof.* (**1,** 1950)

Livingston, Alfred E., Ph.D. Temple Univ. School of Medicine, Philadelphia, Pa. *Prof. of Pharmacology.* (**1,** 1917; **3,** 1920)

Livingston, Robert B., M.D. 333 Cedar St., New Haven, Conn. *Instr., Lab. of Physiology.* (**1,** 1949)

Lloyd, David P. C., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Assoc. Member.* (**1,** 1939)

Locke, Arthur P., Ph.D. Zonite Products Corp., New Brunswick, N. J. *Chief Research Chemist.* (**6,** 1926)

Lodholz, Edward, M.D. Univ. of Pennsylvania, Med. Labs., Philadelphia. *Prof. Emeritus of Physiology, Grad. School of Medicine.* (**1,** 1913)

Loeb, Leo, M.D. Washington Univ. Med. School, St. Louis, Mo. *Prof. Emeritus of Pathology.* (**1R,** 1907; **4,** 1913)

Loebel, Robert O., M.D. 205 East 78th St., New York City. (**1R,** 1928)

Loefer, John B., Ph.D. Foundation of Applied Research, P. O. Box 2296, San Antonio 6, Tex. *Chief Biologist.* (**1,** 1949)

Loew, Earl R., Ph.D. Boston Univ. School of Medicine, 80 E. Concord St., Boston 18, Mass. *Prof. of Physiology.* (**1,** 1940; **3,** 1946)

Loewe, W. S., M.D. Univ. of Utah School of Medicine, Dept. of Pharmacology, Salt Lake City 1. (**3,** 1936)

Logan, Milan A., Ph.D. Univ. of Cincinnati College of Medicine, Eden and Bethesda, Cincinnati 19, Ohio. *Prof. of Biological Chemistry.* (**2,** 1936)

Long, C. N. H., D.Sc., M.D. Yale Univ., 333 Cedar St., New Haven 11, Conn. *Dean, School of Medicine and Sterling Prof. of Physiological Chemistry.* (**1,** 1935; **2,** 1927)

Long, Edmond R., M.D. 7th and Lombard Sts., Philadelphia, Pa. *Dir., Henry Phipps Inst.; Prof. of Pathology, Univ. of Pennsylvania.* (**4,** 1930)

Long, Perrin Hamilton, M.D. Johns Hopkins Univ., 615 N. Wolfe St., Baltimore, Md. *Prof. of Preventive Medicine.* (**3,** 1940)

Longcope, Warfield T., M.D. Cornhill Farm, Lee, Mass. (**3R,** 1921; **4,** 1913; **6R,** 1923)

Longenecker, Herbert Eugene, Ph.D. Univ. of Pittsburgh, Pittsburgh 13, Pa. *Dean, Grad. School; Prof. of Biochemistry.* (**2,** 1940; **5,** 1945)

Longwell, Bernard B., Ph.D. Univ. of Colorado School of Medicine, 4200 East 9th Ave., Denver 7, Colo. *Prof. of Biochemistry.* (**2,** 1946)

Loofbourrow, G. N., Ph.D. Univ. of Kansas, Dept. of Physiology, Lawrence. *Asst. Prof.* (**1,** 1950)

Loomis, Ted A. Ph.D., M.D. Univ. of Washington School of Medicine, Seattle. *Assoc. Prof. of Pharmacology.* (**3,** 1948)

Looney, Joseph M., M.D. 75 Park St., West Roxbury, Mass. *Chief of Labs., V. A. Regional Office, Boston.* (**2,** 1922)

Loosli, Clayton Garr, M.D., Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Preventive Medicine.* (**4,** 1940)

Loosli, J. K., Ph.D. Cornell Univ., Animal Nutrition Lab., Ithaca, N. Y. *Assoc. Prof. of Animal*

Nutrition and Assoc. Animal Nutritionist in Exper. Station. (**5,** 1944)

Lorber, Victor, M.D., Ph.D. Western Reserve Univ. School of Medicine, Dept. of Biochemistry, Cleveland, Ohio. *Assoc. Prof.* (**1,** 1944)

Lorente de Nó, Rafael, M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Member.* (**1,** 1937)

Lorenz, Egon, Ph.D. Natl. Cancer Inst., Bethesda, Md. *Biophysicist.* (**4,** 1942)

Loring, H. S., Ph.D. Stanford Univ., Dept. of Chemistry, Stanford Univ., Calif. *Prof. of Biochemistry.* (**2,** 1938)

Lotspeich, William D., M.D. Oxford Univ., Dept. of Biochemistry, Oxford, England. *Research Fellow in Biochemistry.* (**1,** 1948)

Louis, Lawrence H., D.Sc. Univ. Hospital, Dept. of Internal Medicine, Ann Arbor, Mich. *Asst. Prof. of Biological Chemistry, Univ. of Michigan.* (**2,** 1949)

Loveless, Mary H., M.D. New York Hospital, 525 E. 68th St., New York City. *Research Assoc., Cornell Med. School; Physician to Out-Patients, New York Hospital.* (**6,** 1941)

Lowell, Francis C., M.D. 65 East Newton St., Boston, Mass. *Assoc. Prof. of Medicine, Boston Univ. School of Medicine.* (**6,** 1942)

Lowenbach, Hans, M.D. Duke Univ. Med. School, Durham, N. C. *Assoc. Prof. of Neuropsychiatry and Physiology.* (**1,** 1946)

Lowry, Oliver H., M.D., Ph.D. Washington Univ. School of Medicine, 4580 Scott Ave., St. Louis 10, Mo. *Prof. and Head of Dept. of Pharmacology.* (**2,** 1942; **3,** 1950)

Lu, Go, M.D. Univ. of Maryland Med. School, Dept. of Pharmacology, Baltimore 1. *Fellow.* (**3,** 1949)

Lubinski, Herbert, M.D. Jewish General Hospital, 3755 St. Catherine Rd., Montreal, Quebec, Canada. *Bacteriologist and Serologist.* (**6,** 1941)

Lucas, Colin C., Ph.D. Univ. of Toronto, Banting and Best Dept. of Med. Research, Toronto, Ontario, Canada. *Professor.* (**2,** 1946)

Lucas, George H. W., Ph.D. Univ. of Toronto, Toronto, Ontario, Canada. *Prof. of Pharmacology.* (**2,** 1925; **3,** 1928)

Luck, James Murray, Ph.D. Stanford Univ., Stanford Univ., Calif. *Prof. of Biochemistry.* (**2,** 1925)

Lucké, Balduin, M.D., D.P.H. 141 Montgomery Ave., Bala-Cynwyd, Pa. *Prof. of Pathology, Univ. of Pennysvania Med. School, Philadelphia.* (**4,** 1924)

Luckhardt, Arno Benedict, Ph.D., M.D. Univ. of Chicago, Chicago, Ill. *The Dr. Wm. Beaumont Distinguished Service Prof. of Physiology.* (**1,** 1911)

Ludewig, Stephan, Ph.D. Univ. of Virginia School of Medicine, Charlottesville. *Assoc. Prof. of Biochemistry.* (**2,** 1941)

Luduena, Froilan P., Ph.D., M.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Research Pharmacologist.* (**3,** 1941)

Luecke, Richard W., Ph.D. Michigan State College, Dept. of Agricultural Chemistry, East Lansing. *Prof. (Research).* (**5,** 1950)

Luft, Ulrich C., M.D. USAF School of Aviation Medicine, Randolph A.F.B., Tex. *Research Physiologist.* (**1,** 1950)

Lukens, Francis D. W., M.D. Univ. of Pennsylvania, 809 Maloney Clinic, 36th and Spruce Sts., Philadelphia. *Assoc. Prof. of Medicine; Dir. of George S. Cox Med. Research Inst.* (**1,** 1938)

Lund, E. J., Ph.D. 1000 Barton Blvd., Austin, Tex. *Prof. of General Physiology, Univ. of Texas.* (**1,** 1930)

Lundberg, Walter O., Ph.D. Hormel Inst., Austin, Minn. *Director; Prof. of Agricultural Biochemistry, Univ. of Minnesota.* (**2,** 1949)

Lundgren, Harold P., Ph.D. U. S. Dept. of Agriculture, Western Regional Research Lab., Albany 6, Calif. *Sr. Chemist.* (**2,** 1942)

Lundy, John Silas, M.D. Mayo Foundation, Rochester, Minn. *Prof. of Anesthesiology; Chief of Section on Anesthesia, Mayo Clinic.* (**3,** 1935)

Lurie, Max B., M.D. Henry Phipps Inst., 7th and Lombard Sts., Philadelphia, Pa. *Assoc. Prof. of Exper. Pathology.* (**4,** 1934; **6,** 1930)

Lushbaugh, Clarence C., M.D., Ph.D. Los Alamos Scientific Lab., P. O. Box 1663, Los Alamos, N. Mex. *Staff Member; Pathologist, Los Alamos Hospital.* (**4,** 1950)

Lutz, Brenton R., Ph.D. Boston Univ., 675 Commonwealth Ave., Boston, Mass. *Prof. of Biology.* (**1,** 1925)

Luyet, Basile J., Sc.D. St. Louis Univ. School of Medicine, St. Louis, Mo. *Prof. of Biology.* (**1,** 1936)

Lyall, Harold W., Ph.D. New York State Dept. of Health, Div. of Labs. and Research, Albany. *Asst. Dir. in charge of Antitoxin, Serum, and Vaccine Labs.* (**6,** 1937)

Lyman, Carl M., Ph.D. A and M College of Texas, Texas Agricultural Exper. Station, College Station. *Prof. and Head of Dept. of Biochemistry and Nutrition.* (**2,** 1940)

Lyman, John F., Ph.D. Ohio State Univ., Townshend Hall, Columbus. *Prof. of Agricultural Chemistry.* (**2,** 1920; **5R,** 1933)

Maaske, Clarence A., Ph.D. Univ. of Colorado School of Medicine, 4200 E. 9th Ave., Denver. *Prof. of Physiology.* (**1,** 1945)

Macallum, A. Bruce, M.D., Ph.D. Univ. of Western Ontario Med. School, London, Ontario, Canada. *Research Prof. of Biochemistry.* (**2,** 1914)

MacCardle, Ross C., Ph.D. Natl. Cancer Inst., Bethesda, Md. *Principal Cytologist.* (**4,** 1948)

MacCorquodale, D. W., Ph.D. Abbott Labs.,

North Chicago, Ill. *Head of Biochemical Research.* (**2,** 1934)

MacFadyen, Douglas A., M.D. Presbyterian Hospital, 1753 W. Congress St., Chicago 12, Ill. *Chairman of Dept. of Biochemistry.* (**2,** 1942)

Macht, David Israel, M.D. Sinai Hospital, Baltimore, Md. *Consultant Pharmacologist; Research Pharmacologist, Sinai Hospital Labs.* (**1R,** 1916; **3,** 1915)

Macht, Martin B., Ph.D. The Jewish Hospital, Cincinnati 29, Ohio. (**1,** 1948)

MacIntosh, F. C., Ph.D. McGill Univ., Dept. of Physiology, Montreal, Quebec, Canada. *Professor and Chairman of Dept.* (**1,** 1950; **3,** 1950)

MacKay, Eaton M., M.D. Scripps Metabolic Clinic, La Jolla, Calif. (**1,** 1930)

MacKay, Ian F. S., Ph.D. Univ. College of the West Indies, Jamaica, British West Indies. *Prof. of Physiology.* (**1,** 1949)

Mackenzie, Cosmo G., Sc.D. Univ. of Colorado School of Medicine, Dept. of Biochemistry, 4200 E. 9th Ave., Denver 7. *Professor.* (**1,** 1946; **2,** 1946; **5,** 1942)

Mackenzie, George M., M.D. Mary Imogene Bassett Hospital, Cooperstown, N. Y. *Physician-in-Chief; Dir., Otsego County Lab.* (**6,** 1912)

MacLeod, Colin M., M.D. New York Univ. College of Medicine, 477 First Ave., New York City. *Prof. of Bacteriology.* (**6,** 1937)

MacLeod, Florence L., Ph.D. Univ. of Tennessee, Knoxville. *Prof. of Nutrition.* (**2,** 1927; **5,** 1933)

MacLeod, Grace, Ph.D. 106 Morningside Drive, New York City 27. *Prof. Emeritus of Nutrition, Teachers College, Columbia Univ.* (**2,** 1924; **5R,** 1933)

MacLeod, John, Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Asst. Prof. of Anatomy.* (**1,** 1942)

MacNabb, Andrew L., V.S., B.V.Sc. Guelph, Ontario, Canada. *Principal, Ontario Veterinary College.* (**6,** 1941)

MacNider, William deB., M.D., Sc.D. Univ. of North Carolina, Chapel Hill. *Kenan Research Prof. of Pharmacology.* (**1,** 1912; **2,** 1912; **3,** 1909; **4,** prior to 1920)

MacPherson, Catherine F. C., Ph.D. 236 Brock Ave. N., Montreal West, Quebec, Canada. (**2,** 1947)

MacPhillamy, Betty B., Ph.D. 145 Greene Ave., Madison, N. J. *Bacteriologist.* (**6R,** 1944)

MacVicar, Robert, Ph.D. Oklahoma A & M College, Stillwater. *Prof. and Head of Dept. of Agricultural Chemistry Research.* (**2,** 1949)

Madden, Sidney C., M.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Head, Div. of Pathology; Pathologist-in-Chief, Brookhaven Natl. Lab. Hospital.* (**4,** 1939)

Maddock, Stephen, M.D. Boston City Hospital, Boston, Mass. *Dir. of Surgical Research Lab.; Asst. Prof. of Surgery, Tufts Med. School.* (**4,** 1931)

Madsen, Louis L., Ph.D. Utah State Agricultural College, Dept. of Animal Husbandry, Logan. *Nutritionist.* (**5,** 1940)

Magath, Thomas B., Ph.D., M.D. Mayo Clinic, Rochester, Minn. *Head of Div. of Clin. Labs.; Prof. of Clin. Pathology and Parasitology, Univ. of Minnesota; Mayo Foundation.* (**1,** 1928)

Magill, Thomas P., M.D. Long Island College of Medicine, Brooklyn, N. Y. *Prof. of Bacteriology.* (**6,** 1937)

Magladery, J. W., M.D., Ph.D., M.R.C.P. Johns Hopkins Hospital, Baltimore, Md. *Asst. Prof. of Neurology, Johns Hopkins University.* (**1,** 1950)

Magnuson, Harold J., M.D., M.P.H. Univ. of North Carolina, Chapel Hill. *Research Prof. of Exper. Medicine; Sr. Surgeon, USPHS.* (**4,** 1950)

Magoun, Horace W., Ph.D. Univ. of California Med. School, Los Angeles 24. (**1,** 1937)

Mahon, Eleanor Conway, Ph.D. Iron River, Mich. (**4,** 1940)

Main, Rolland J., Ph.D. Eaton Labs., Inc., Eaton Ave., Norwich, N. Y. *Med. Editor and Consultant in Physiology.* (**1,** 1936)

Maison, George L., M.S., M.D. Boston Univ. Med. School, 80 E. Concord St., Boston 18, Mass. *Prof. and Head of Pharmacology Dept.* (**1,** 1939; **3,** 1948)

Major, Randolph T., Ph.D. Merck and Co., Inc., Rahway, N. J. *Vice Pres. and Scientific Dir.* (**2,** 1942)

Malkiel, Saul, Northwestern Univ. Med. School, Evanston, Ill. *Asst. Prof. of Medicine; Dir. of Allergy Research Lab.* (**6,** 1948)

Mallory, G. Kenneth, M.D. Mallory Inst. of Pathology, Boston City Hospital, Boston, Mass. *Professor.* (**4,** 1940)

Mallory, Tracy B., M.D. Massachusetts General Hospital, Boston. *Dir. of Pathology and Bacteriology; Prof. of Pathology, Harvard Med. School.* (**4,** 1937)

Maloney, Arnold H., Ph.D., M.D. Howard Univ. School of Medicine, Washington, D. C. *Prof. and Head of Dept. of Pharmacology.* (**3,** 1932)

Maltaner, Frank, Ph.D. Scarsdale Manor, Scarsdale, N. Y. Biochemist, Div. of Lab. and Research, New York State Dept. of Health. (**6,** 1920)

Maluf, N. S. Rustum, Ph.D. Columbia Univ., Presbyterian Hospital, Squier Urological Clinic, New York City 32. *Resident in Urology.* (**1,** 1942)

Man, Evelyn B., Ph.D. Yale Univ. School of Medicine, 333 Cedar St., New Haven, Conn. *Asst. Prof. in Biochemistry Lab., Dept. of Medicine.* (**2,** 1936)

Manery, Jeanne Forest, Ph.D. Univ. of Toronto

Med. School, Toronto, Ontario, Canada. *Demonstrator in Biochemistry.* (**1,** 1937)

Mangun, George H., Ph.D. Henry Ford Hospital, 15713 Heyden St., Detroit 23, Mich. *Sr. Assoc. in Clin. Chemistry.* (**2,** 1947)

Mann, Frank C., M.A., M.D. Mayo Clinic, Box 256, Rochester, Minn. *Prof. of Exper. Medicine, Mayo Foundation.* (**1,** 1916; **4R,** 1924)

Mann, Frank D., Ph.D., M.D. 102–110 2nd Ave., S.W., Rochester, Minn. *Consultant in Clinical Pathology, Mayo Clinic; Asst. Prof. of Clinical Pathology, Mayo Foundation.* (**1,** 1950; **4,** 1950)

Manning, G. W., M.D., Ph.D. Victoria Hospital, London, Ontario, Canada. *Asst. Prof. of Clin. Investigation, Dept. of Medicine; Lecturer, Dept. of Physiology, Univ. of Western Ontario.* (**1,** 1944)

Manville, Ira Albert, M.D., Ph.D. 811 N. W. 19th Ave., Portland 9, Ore. (**1,** 1933)

Manwaring, Wilfred H., M.D. Stanford Univ., Stanford University, Calif. *Prof. Emeritus of Bacteriology and Exper. Pathology.* (**4,** prior to 1920; **6,** 1917)

Marbarger, John P., Ph.D. Univ. of Illinois Physical Environment Unit, 1853 W. Polk St., Chicago 12. *Research Dir., Aeromed. and Physical Environment Lab.; Assoc. Prof. of Physiology.* (**1,** 1949)

Marcus, Stanley, Ph.D. Univ. of Utah, Dept. of Bacteriology, Salt Lake City. *Assoc. Prof.* (**6,** 1948)

Maren, Thomas H., A.B. Johns Hopkins Med. School, 710 N. Washington St., Baltimore, Md. *Instr. in Pharmacology.* (**3,** 1950)

Marine, David, M.A., M.D. 18 Baltimore Ave., Rehoboth, Del. (**1R,** 1910; **4,** 1913)

Mark, Lester C., M.D. 535 E. 14th St., New York City 9. *Research Fellow in Anesthesiology.* (**3,** 1950)

Markee, Joseph E., Ph.D. Duke Univ. School of Medicine, Durham, N. C. *Prof. of Anatomy.* (**1,** 1945)

Markowitz, J., M.D., Ph.D. Univ. of Toronto School of Medicine, Toronto, Ontario, Canada. *Research Assoc. in Physiology.* (**1,** 1929)

Marmont, George H., Ph.D. Univ. of Chicago, Inst. of Radiobiology and Biophysics, Chicago 37, Ill. *Asst. Prof. of Physiology.* (**1,** 1941)

Marmorston, Jessie. Inst. for Med. Research, 4751 Fountain Ave., Los Angeles, Calif. *Asst. Prof. of Medicine, Univ. of Southern California Staff, County and Cedars of Lebanon Hospitals.* (**6,** 1932)

Marrazzi, Amedeo S., M.D. Med. Div., Army Chemical Center, Md. *Chief, Toxicology Section.* (**1,** 1949; **3,** 1938)

Marsh, David F., Ph.D. West Virginia Univ., School of Medicine, Dept. of Pharmacology, Morgantown. *Head and Prof. of Pharmacology.* (**3,** 1946)

Marsh, Gordon, Ph.D. State Univ. of Iowa, Iowa City. *Assoc. Prof. of Zoology.* (**1,** 1944)

Marsh, M. Elizabeth, Ph.D. P. O. Box 17, Soquel, Calif. (**1,** 1929; **5,** 1933)

Marshak, Alfred George, Ph.D. New York Univ. College of Medicine, New York City. *Research Assoc.* (**1,** 1940)

Marshall, Eli Kennerly, Jr., Ph.D., M.D. Johns Hopkins Med. School, Baltimore, Md. *Prof. of Pharmacology and Exper. Therapeutics.* (**1,** 1915; **2,** 1913; **3,** 1915)

Marshall, Louise Hanson, Ph.D. Natl. Insts. of Health, Inst. of Exper. Biology and Medicine, Bethesda, Md. *Physiologist.* (**1,** 1946)

Marshall, Wade H., Ph.D. Natl. Insts. of Health, Bethesda, Md. *Research Fellow, Lab. of Physical Biology.* (**1,** 1937)

Martin, Arthur W., Jr., Ph.D. Univ. of Washington, Johnson Hall, Seattle. *Executive Officer, Dept. of Zoology.* (**1,** 1944)

Martin, Donald S., M.D. Univ. of Puerto Rico, School of Medicine, San Juan, Puerto Rico. (**6,** 1943)

Martin, Foster N., Jr., Ph.D., M.D. Tulane Univ. Med. School, P.O. Station 20, New Orleans, La. *Asst. Prof. of Pharmacology.* (**3,** 1947)

Martin, Stephens J., Ph.D. St. Francis Hospital, Hartford, Conn. (**1,** 1933)

Marx, Walter, Ph.D. Univ. of Southern California School of Medicine, Los Angeles 7, Calif. *Assoc. Prof. of Biochemistry.* (**2,** 1949)

Mason, Edward C., M.D., Ph.D. Univ. of Oklahoma School of Medicine, Oklahoma City. *Prof. of Physiology.* (**1,** 1935)

Mason, Eleanor Dewey, Ph.D. Women's Christian College, Dept. of Physiology and Nutrition, Cathedral P.O., Madras, India. *Prof. of Physiology and Nutrition.* (**1,** 1946)

Mason, Herman C., 131 N. Harvey Ave., Oak Park, Ill. *Consulting Bacteriologist and Immunologist.* (**6,** 1948)

Mason, Harold L., Ph.D. Mayo Clinic, Rochester, Minn. *Prof. of Physiological Chemistry, Mayo Foundation, Univ. of Minnesota.* (**2,** 1941)

Mason, Howard S., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Cancer Inst. Fellow.* (**2,** 1949)

Mason, Karl Ernest, Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. of Anatomy.* (**5,** 1941)

Mason, Morton F., Ph.D. Parkland Hospital, Oak Lawn at Maple, Dallas 4, Tex. *Prof. of Pathological Chemistry, Dept. of Medicine, Southwestern Med. College of the Univ. of Texas.* (**2,** 1938)

Mason, Richard P., M.D. Army Med. Dept., Research and Grad. School, Virus and Rickettsial Disease Dept., Washington, D. C. *Chief, Rickettsial Disease Research Section.* (**6,** 1950)

Massengale, Oliver N., Ph.D. Mead Johnson and

Co., Research Lab., Evansville, Ind. *Research Biochemist.* (**2,** 1937)

Masson, Georges M. C., Ph.D. Cleveland Clinic Foundation, Research Div., Cleveland, Ohio. (**1,** 1944)

Mathews, Albert P., Ph.D. Marine Biological Lab., Woods Hole, Mass. *Carnegie Prof. Emeritus of Biochemistry, Univ. of Cincinnati.* (**1R,** 1898; **2,** 1906)

Matson, Gustave A., Ph.D. Minneapolis Memorial Blood Bank, Inc., 1914 La Salle Ave., Minneapolis, Minn. *Director.* (**6,** 1946)

Matthews, Samuel A., Ph.D. Williams College, Williamstown, Mass. *Prof. of Biology.* (**1,** 1948)

Mattill, Henry A., Ph.D. State Univ. of Iowa, Iowa City. *Prof. and Head of Dept. of Biochemistry.* (**1,** 1913; **2,** 1909; **5,** 1933)

Mattis, Paul A., D.Sc. Western Reserve Univ. School of Medicine, Cleveland, Ohio. *Asst. Prof. of Pharmacology.* (**3,** 1946)

Maurer, Frank W., Ph.D. 301 Lake Ave., Newton Highlands 61, Mass. (**1,** 1941)

Maurer, Fred D., D.V.M., Ph.D. Army Med. Dept., Research and Grad. School, Army Med. Center, Veterinary Div., Washington 12, D. C. *Chief, Dept. Veterinary Virology.* (**6,** 1950)

Mautz, Frederick R., M.D. 10515 Carnegie Ave., Cleveland 6, Ohio. (**1,** 1945)

Maver, Mary E., Ph.D. Natl. Cancer Inst., Bethesda 14, Md. *Sr. Biochemist.* (**2,** 1947)

Mavor, James Watt, Ph.D. 8 Gracewood Park, Cambridge, Mass. (**1R,** 1930)

Maxfield, Mary E., Ph.D. Woman's Med. College of Pennsylvania, Dept. of Pharmacology, Philadelphia. *Assoc. Prof.* (**1,** 1947)

Mayer, Dennis T., Ph.D. Univ. of Missouri, Dept. of Agricultural Chemistry, 211 Schweitzer Hall, Columbia. *Assoc. Prof.* (**2,** 1950)

Mayer Manfred M., Ph.D. 1331 Howard Rd., Glen Burnie, Md. *Assoc. Prof. of Bacteriology, Johns Hopkins Hospital, School of Hygiene.* (**6,** 1946)

Mayerson, Hymen S., Ph.D. Tulane Univ. School of Medicine, Station 20, New Orleans, La. *Prof. and Head of Dept. of Physiology.* (**1,** 1928)

Maynard, Elliott Allen, Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Asst. Prof. of Pharmacology and Toxicology.* (**3,** 1950)

Maynard, L. A., Ph.D. Cornell Univ., Ithaca, N. Y. *Prof. of Nutrition and Biochemistry; Dir. of School of Nutrition.* (**2,** 1930; **5,** 1933)

Mazur, Abraham, Ph.D. City College of New York, 139th St. and Convent Ave., New York City 31. *Asst. Prof. in Dept. of Chemistry.* (**2,** 1944)

McCann, William S., M.D., D.Sc. Univ. of Rochester School of Medicine, Rochester, N. Y. *The Charles A. Dewey Prof. of Medicine.* (**2,** 1923; **5,** 1933)

McCarrell, Jane D. Hood College, Dept. of Biology, Frederick, Md. (**1,** 1942)

McCarty, Maclyn, M.D. 66th St. and York Ave., New York City 21. *Assoc., Rockefeller Inst. for Med. Research.* (**6,** 1947)

McCawley, Elton Leeman, Ph.D. Univ. of Oregon, Dept. of Pharmacology, Portland. *Assoc. Prof.* (**3,** 1944)

McCay, Clive M., Ph.D. Cornell Univ., Animal Nutrition Lab., Dairy Bldg., Ithaca, N. Y. *Prof. of Nutrition.* (**2,** 1929; **5,** 1933)

McChesney, Evan William, Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Member, Biological Div.* (**1,** 1944)

McClellan, Walter S., M.D. Saratoga Spa, Saratoga Springs, N. Y. *Med. Dir.; Assoc. Prof. of Medicine, Albany Med. College.* (**1,** 1931)

McClendon, J. F., Ph.D. Route 1, Box 383, Trooper Rd., Norristown, Pa. *Research Prof. of Physiology, Hahnemann Med. College.* (**1R,** 1910; **2,** 1914; **5R,** 1935)

McClung, L. S. Indiana Univ., Bloomington. *Assoc. Prof. and Chairman of Dept. of Bacteriology.* (**6,** 1948)

McCollum, Elmer Verner, Ph.D. Johns Hopkins Univ., Baltimore 18, Md. *Prof. Emeritus of Biochemistry.* (**2,** 1910; **5,** 1933)

McCollum, Ernestine Becker, M.A. Johns Hopkins Univ. School of Hygiene, Baltimore 5, Md. *Asst. Prof. of Biochemistry.* (**5,** 1938)

McCouch, Grayson Prevost, M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Assoc. Prof. of Physiology.* (**1,** 1925)

McCouch, Margaret Sumwalt, Ph.D. Rose Tree Rd., R.F.D. 1, Media, Pa. (**1,** 1934)

McCoy, Richard H., Ph.D. Univ. of Pittsburgh, Pittsburgh, Pa. *Assoc. Research Prof. of Chemistry.* (**2,** 1950; **5,** 1948)

McCrea, Forrest D., Ph.D. Duke Univ. School of Medicine, Durham, N. C. *Assoc. Prof. of Physiology and Pharmacology.* (**1,** 1929; **3,** 1937)

McCrudden, Francis H., M.D. 19 Stoneleigh Rd., West Newton 65, Mass., *Asst. Med. Dir., New England Mutual Life Insurance Co.* (**2,** 1906)

McCulloch, Warren Sturgis, M.A., M.D. Univ. of Illinois College of Medicine, 912 S. Wood St., Chicago. *Assoc. Prof. of Psychiatry.* (**1,** 1936)

McCutcheon, Morton, M.D. Univ. of Pennsylvania Med. School, Philadelphia. *Prof. of Pathology.* (**4,** 1925)

McDonald, Francis Guy, Ph.D. Mead Johnson and Co., Research Lab., 2404 W. Pennsylvania St., Evansville, Ind. *Biochemist.* (**2,** 1936; **5,** 1947)

McDonald, Roger K., M.D. Baltimore City Hospitals, Cardiovascular Diseases Section, Baltimore 24, Md. *Sr. Asst. Surgeon, USPHS, Natl. Heart Inst., Bethesda, Md.* (**1,** 1949)

McEllroy, William Swindler, M.D. Univ. of Pittsburgh School of Medicine, Pittsburgh, Pa. *Dean; Prof. of Physiological Chemistry.* (**2,** 1919)

McElroy, L. W. Ph.D. Univ. of Alberta, Dept. of Animal Science, Edmonton, Canada. *Assoc. Prof. of Animal Husbandry.* (**5,** 1944)

McElroy, William D., Ph.D. Johns Hopkins Univ., Baltimore, Md. *Asst. Prof. of Biology.* (**1,** 1945)

McFarland, Ross A., Ph.D. Harvard Univ. School of Public Health, Boston, Mass. *Assoc. Prof. of Industrial Hygiene.* (**1,** 1943)

McFarlane, William Douglas, Ph.D. 496 Queen St., E., Toronto, Ontario, Canada. *Dir. of Research, Canadian Breweries, Ltd. and Victory Mills, Ltd.* (**2,** 1933)

McGinty, Daniel A., Ph.D. Parke, Davis and Co., Detroit, Mich. *Research Physiologist.* (**1,** 1925)

McGuigan, Hugh Alister, Ph.D., M.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago. *Prof. Emeritus of Pharmacology.* (**1R,** 1907; **2,** 1906; **3R,** 1913)

McHargue, J. S., Ph.D. Univ. of Kentucky, Dept. of Chemistry, Kentucky Agricultural Exper. Station, Lexington. *Member Emeritus.* (**2,** 1927)

McHenry, E. W., Ph.D. Univ. of Toronto, School of Hygiene, Toronto, Ontario, Canada. *Prof. of Public Health Nutrition.* (**2,** 1938; **5,** 1935)

McIntyre, A. R., Ph.D., M.D. Univ. of Nebraska College of Medicine, 42nd and Dewey Ave., Omaha. *Prof. of Physiology and Pharmacology.* (**1,** 1933; **3,** 1938)

McKee, Albert P. R.F.D. 7, Iowa City, Iowa. *Assoc. Prof. of Bacteriology, State Univ. of Iowa.* (**6,** 1948)

McKee, Clara M., Squibb Inst. for Med. Research, New Brunswick, N. J. *Assoc. in Microbiology.* (**6,** 1941)

McKee, Frank W., M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Instr. in Pathology; James E. Gleason Fellow.* (**4,** 1947)

McKee, Ralph Wendell, Ph.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Asst. Prof. of Biological Chemistry.* (**2,** 1946)

McKennis, Herbert, Jr., Ph.D. Naval C. E. Research Lab., Port Hueneme, Calif. *Assoc. Prof. of Biochemistry.* (**2,** 1948)

McKibbin, John M., Ph.D. State Univ. of New York Med. Center at Syracuse Univ., Syracuse, N. Y. *Assoc. Prof. of Biochemistry.* (**2,** 1948)

McLain, Paul L., M.D. Univ. of Pittsburgh Med. School, Pittsburgh, Pa. *Prof. of Physiology and Pharmacology.* (**1,** 1948; **3,** 1940)

McLean, Franklin C., Ph.D., M.D. Univ. of Chicago, Chicago 37, Ill. *Prof. of Pathological Physiology.* (**1,** 1914; **2,** 1916; **3,** 1916)

McLean, I. William, Jr., M.D. Parke, Davis Lab., Virus Research Div., Detroit, Mich. *Research Virologist.* (**6,** 1946)

McLester, James S., M.D. Univ. of Alabama, 930 S. 20th St., Birmingham. *Prof. of Medicine.* (**5,** 1933)

McLimans, William F., Ph.D. Univ. of Minnesota, 1834 Chelton Ave., St. Paul. *Asst. Prof. of Bacteriology and Immunology.* (**6,** 1949)

McManus, J. F. A., M.D. Univ. of Virginia, School of Medicine, Charlottesville. *Assoc. Prof. of Pathology.* (**4,** 1948)

McMaster, Philip D., M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. (**4,** 1924)

McMeekin, Thomas L., Ph.D. U. S. Dept. of Agriculture, Eastern Regional Research Lab., Philadelphia, Pa. *Head of Protein Div.* (**2,** 1935)

McNamara, Bernard P., Ph.D. Med. Div., Army Chemical Center, Md. *Asst. Chief, Pharmacology Section.* (**3,** 1947)

McNaught, James Bernard, M.D. Univ. of Colorado School of Medicine, Denver 7. *Prof. and Head of Dept. of Pathology.* (**4,** 1936)

McNeil, Crichton, M.D. Holy Cross Hospital, Salt Lake City, Utah. *Pathologist.* (**6,** 1950)

McPhail, Murchie K., Ph.D. Natl. Defense Board, Suffield Exper. Station, Ralston, Alberta, Canada. *Research Scientist.* (**3,** 1941)

McQuarrie, Irvine, Ph.D., M.D. Univ. of Minnesota, Minneapolis. *Prof. and Head of Dept. of Pediatrics.* (**1,** 1949; **4,** 1927; **5,** 1933)

McShan, W. H., Ph.D. Univ. of Wisconsin, Biology Bldg., Madison 6. *Assoc. Prof. of Zoology.* (**2,** 1947)

Medes, Grace, Ph.D. Lankenau Hospital Research Inst., Philadelphia, Pa. *Research Physiological Chemist.* (**2,** 1930)

Medlar, Edgar M., M.D. Veterans Admin. Hospital, Sunmount, N. Y. *Chief Lab. Pathologist.* (**4,** 1927)

Meek, Walter J., Ph.D. Univ. of Wisconsin, Madison. *Prof. of Physiology; Assoc. Dean of Med. School.* (**1,** 1908)

Mehl, John W., Ph.D. Univ. of Southern California, 3551 Univ. Ave., Los Angeles. *Prof. of Biochemistry.* (**2,** 1946)

Meier, Rolf, M.D. Basle Univ., Pelikanweg 7, Basle, Switzerland. *Dir., Biological Research Labs., Ciba A.G.* (**3,** 1949)

Meiklejohn, Gordon, M.D. 678 Woodmont Ave., Berkeley, Calif. *Instr. in Medicine, Univ. of California Med. School.* (**6,** 1948)

Meister, Alton, M.D. Natl. Cancer Inst., Bethesda 14, Md. *Head, Unit. on Biochemical Research.* (**2,** 1950)

Meites, Joseph. Michigan State College, Dept. of Physiology and Pharmacology, East Lansing. *Asst. Prof.* (**1,** 1949)

Mellon, Ralph R., M.S., M.D., D.P.H. Western Pennsylvania Hospital, Inst. of Pathology, Pittsburgh. *Director.* (**6,** 1918)

Melnick, Daniel, Ph.D. The Best Foods, Inc., Research Labs., Bayonne, N. J. *Chief Technologist.* (**2,** 1940; **5,** 1942)

Melnick, Joseph L., Ph.D. Yale Univ. School of Medicine, 333 Cedar St., New Haven 11, Conn. *Assoc. Prof. of Microbiology.* (**2,** 1946; **6,** 1948)

Melville, Donald B., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Assoc. Prof. of Biochemistry.* (**2,** 1947)

Melville, Kenneth Ivan, M.D. McGill Univ., Montreal, Quebec, Canada. *Assoc. Prof. of Pharmacology.* (**3,** 1931)

Mendel, Bruno, M.D. Univ. of Toronto, Banting and Best Dept. of Med. Research, 100 College St., Toronto 5, Ontario, Canada. *Prof. of Cellular Physiology.* (**2,** 1947)

Mendelson, E. S., B.A. R.F.D. 2, Telford, Pa. *Physiologist; Head of Human Engineering Div., Naval Air Exper. Station, Philadelphia, Pa.* (**1,** 1949)

Mendenhall, Walter L., M.S., M.D. 9 Acacia St., Cambridge, Mass. *Retired Prof. of Pharmacology, Boston Univ. Med. School.* (**1,** 1915; **3R,** 1917)

Mendez, Rafael, M.D. Natl. Inst. of Cardiology, Calzada de la Piedad 300, Mexico D.F., Mexico. *Head of Dept. of Pharmacology.* (**3,** 1944)

Mendlowitz, Milton, M.D. 136 E. 64th St., New York City 21. *Adjunct Physician in Mt. Sinai Hospital of New York.* (**1,** 1949)

Meneely, George R., M.D. Thayer Veterans Admin. Hospital, Nashville, Tenn. *Asst. Prof. of Medicine.* (**4,** 1946)

Meng, H. C., M.D., Ph.D. Vanderbilt Univ. Med. School, Dept. of Physiology, Nashville 4. *Instructor.* (**1,** 1950)

Menkin, Valy, M.A., M.D. Temple Univ. School of Medicine, Philadelphia, Pa. *Assoc. Prof. of Exper. Pathology.* (**1,** 1932; **4,** 1932; **6,** 1931)

Menten, Maud L., M.D. Ph.D. 1608 Sixth Ave., New Westminster, B. C., Canada. *Retired Prof. of Pathology, Univ. of Pittsburgh.* (**1,** 1915; **4,** 1927)

Mertz, Edwin T., Ph.D. Purdue Univ., Dept. of Agricultural Chemistry, W. Lafayette, Ind. *Assoc. Prof.* (**2,** 1950)

Mettier, Stacy R., M.D. Univ. of California Hospital, San Francisco. *Prof. of Medicine.* (**4,** 1932)

Mettler, Fred A., Ph.D., M.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Neurology, New York City. *Assoc. Prof. of Anatomy.* (**1,** 1937)

Meyer, Arthur E., Ph.D. Fellows Pharmaceutical Lab., New York City. (**1,** 1948)

Meyer, Curtis E., Ph.D. Upjohn Co., Kalamazoo, Mich. *Sr. Research Chemist.* (**2,** 1942)

Meyer, Frieda L., Ph.D. U. S. Dept. of Agriculture, Bureau of Human Nutrition, Food and Nutrition Div., Washington 25, D. C. *Nutrition Specialist.* (**5,** 1949)

Meyer, Karl, M.D., Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Biochemistry, Dept. of Medicine.* (**2,** 1934)

Meyer, Karl F., M.D., Ph.D. George W. Hooper Foundation, Univ. of California Med. Center, San Francisco. *Director.* (**4,** 1930; **6,** 1922)

Meyer, Roland K., Ph.D. Univ. of Wisconsin, Biology Bldg., Madison 6. *Prof. of Zoology.* (**1,** 1949)

Meyerhof, Otto, M.D. Univ. of Pennsylvania School of Medicine, Dept. of Physiological Chemistry, Philadelphia. *Research Prof. of Biochemistry.* (**2,** 1941)

Mezey, Kaàlman, M.D. Calle 84, No. 9–68, Bogota, Colombia, South America. *Prof. of Pharmacology, Javeriana Univ. Med. School.* (**3,** 1950)

Michel, Harry O., Ph.D. Med. Div., Biochemical Section, Army Chemical Center, Md. *Biochemist.* (**2,** 1949)

Mickelsen, Olaf, Ph.D. Nutrition Branch USPHS, Washington 25, D. C. *Chief Chemist.* (**2,** 1944)

Mider, George Burroughs, M.D. Strong Memorial Hospital, Rochester 7, N. Y. *Prof. of Cancer Research.* (**4,** 1940)

Miles, Walter R., Ph.D. Yale Univ., 333 Cedar St., New Haven, Conn. *Prof. of Psychology, School of Medicine and Inst. of Human Relations.* (**1,** 1919)

Milhorat, Ade T., M.D. Cornell Univ. Med. College, New York City 21. *Asst. Prof. of Medicine and Instr. in Pharmacology; Research Fellow, Russell Sage Inst. of Pathology.* (**1,** 1934; **3,** 1937; **5,** 1935)

Miller, Augustus Taylor, Jr., Ph.D. Univ. of North Carolina Med. School, Chapel Hill. *Assoc. Prof. of Physiology.* (**1,** 1944)

Miller, Benjamin F., M.D. 71 Mt. Vernon St., Boston 8, Mass. *Assoc. Physician, Massachusetts General Hospital; Clin. Prof. of Medicine (on leave), George Washington Med. School.* (**2,** 1938)

Miller, Carey D., M.S. Univ. of Hawaii, Honolulu *Prof. of Food and Nutrition, Hawaii Agricultural Exper. Station.* (**5,** 1942)

Miller, C. Phillip, M.S., M.D. Univ. of Chicago, Chicago, Ill. *Prof. of Medicine; Member, Inst. of Radiobiology and Biophysics.* (**4,** 1925; **6,** 1928)

Miller, Edgar G., Jr., Ph.D. Columbia Univ., 630 W. 168th St., New York City. *Prof. of Biological Chemistry.* (**2,** 1930)

Miller, Franklin R., M.D. Jefferson Med. College and Hospital, Div. of Hematology, Philadelphia, Pa. *Assoc. Prof. of Medicine.* (**4,** 1940)

Miller, Frederick R., M.A., M.D. Univ. of Western Ontario, Faculty of Medicine, London, Ontario, Canada. *Research Prof. of Neurophysiology.* (**1,** 1908)

Miller, Gail L., Ph.D. Inst. for Cancer Research, Dept. of General Biochemistry, Hasbrook and

Hartel Aves., Philadelphia 11, Pa. *Assoc. Member.* (**2,** 1949)

Miller, George H., M.D. American College of Surgeons, 40 E. Erie St., Chicago 11, Ill. *Dir. of Educational Activities.* (**3,** 1925)

Miller, George A., Ph.D. Harvard Univ., Psycho-Acoustic Lab., Cambridge, Mass. *Research Fellow.* (**1,** 1948)

Miller, H. R., M.D. Montefiore Hospital, 1020 Park Ave., New York City. (**1,** 1947)

Miller, James A., Ph.D. Univ. of Wisconsin Med. School, McArdle Mem. Lab. for Cancer Research, Madison 6. *Assoc. Prof. of Oncology.* (**2,** 1949)

Miller, Leon L., Ph.D., M.D. Univ. of Rochester School of Medicine and Dentistry, P.O. Box 287, Crittenden Station, Rochester, N. Y. *Assoc. Prof. of Radiation Biology and Biochemistry.* (**2,** 1947)

Miller, Lila, Ph.D. Univ. of Michigan, Ann Arbor. *Asst. Prof. of Biological Chemistry.* (**2,** 1946)

Miller, Lloyd C., Ph.D. U. S. Pharmacopeia, 46 Park Ave., New York City 16. *Dir. of Pharmacopeial Revision.* (**3,** 1938)

Miller, R. C., Ph.D. Pennsylvania State College, State College. *Prof. of Agricultural and Biological Chemistry.* (**5,** 1935)

Miller, Zelma Baker, Ph.D. 71 Mt. Vernon, Boston, Mass. (**2,** 1940)

Millman, Nathan, M.Sc., Ph.D. 50 Brookside Ave., Apt. 6A, Somerville, N. J. *Research Assoc., Div. of Physiology and Pharmacology, Ortho Research Foundation, Raritan, N. J.* (**1,** 1950)

Mills, Clarence A., Ph.D., M.D. Cincinnati General Hospital, Cincinnati 29, Ohio. *Prof. of Exper. Medicine, Univ. of Cincinnati.* (**1,** 1921; **2,** 1921)

Minard, David, Ph.D., M.D. Natl. Naval Med. Center, Naval Med. Research Inst., Bethesda, Md. *Head, Physiology Div.* (**1,** 1950)

Minot, Annie Stone, Ph.D. Vanderbilt Univ. Med. School, Nashville, Tenn. *Assoc. Prof. of Biochemistry.* (**1,** 1923)

Mirick, George S., M.D. Johns Hopkins Univ., School of Medicine, Baltimore, Md. *Assoc. Prof. of Medicine.* (**6,** 1950)

Mirsky, Alfred E., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member.* (**2,** 1941)

Mirsky, I. Arthur, M.D. The Jewish Hospital, Cincinnati, Ohio. *Dir., May Inst. for Med. Research, Asst. Prof. of Biochemistry, Univ. of Cincinnati.* (**1,** 1936)

Mitchell, Harold H., M.D. 120 Lasky Drive, Beverly Hills, Calif. (**6,** 1943)

Mitchell, Harold H., Ph.D. Univ. of Illinois, 555 Davenport Hall, Urbana. *Prof. of Animal Nutrition.* (**2,** 1919; **5,** 1933)

Mitchell, Helen S., Ph.D. Univ. of Massachusetts, Amherst. *Dean of School of Home Economics.* (**2,** 1925; **5,** 1933)

Mitchell, Philip H., Ph.D. Brown Univ., Providence 12, R. I. *Robert P. Brown Prof. of Biology.* (**2,** 1909)

Modell, Walter, M.D. Cornell Univ. Med. College, 1300 York Ave., New York City, *Asst. Prof. in Clin. Pharmacology.* (**3,** 1944)

Moe, Gordon Kenneth, Ph.D., M.D. New York State Univ. School of Medicine, Dept. of Physiology, Syracuse 10. *Prof. and Head of Dept.* (**3,** 1944)

Mohn, James F., M.D. 24 High St., Buffalo, N. Y. *Asst. Prof. in Bacteriology and Immunology, Univ. of Buffalo School of Medicine.* (**6,** 1946)

Molitor, Hans, M.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Director.* (**1,** 1933; **3,** 1942)

Molland, Jacob, M.D., Ph.D. Univ. of Oslo, Oslo, Norway. *Prof. of Pharmacology.* (**3,** 1948)

Molnar, George W., Ph.D. Med. Dept., Field Research Lab., Fort Knox, Ky. *Physiologist.* (**1,** 1949)

Molomut, Norman, Ph.D. Biological Labs., 16 Clinton St., Brooklyn 2, N. Y. *Dir. of Research and of Labs.* (**6,** 1942)

Montgomery, Hugh, M.D. Univ. of Pennsylvania Hospital, 36th and Spruce Sts., Philadelphia *Asst. Prof. of Clin. Medicine.* (**1,** 1950)

Moon, Henry D., M.A., M.D. Univ. of California Med. School, Div. of Pathology, San Francisco 22. *Asst. Clin. Prof. of Pathology; Pathologist, V. A. Hospital; City Pathologist.* (**4,** 1950)

Moon, Virgil H., M.Sc., M.D. Univ. of Miami, Med. Research Unit., Coral Gables 34, Fla. *Prof. of Pathology.* (**4,** 1934)

Moore, Arthur R., Ph.D. Univ. of Portland, Dept. of Biology, Portland, Ore. (**1,** 1912)

Moore, Carl Vernon, M.D. Washington Univ. School of Medicine, St. Louis, Mo. *Prof. of Medicine.* (**4,** 1938; **5,** 1941)

Moore, Dan H., Ph.D. U. S. Navy No. 100, c/o Fleet Post Office, New York City. (**1,** 1948)

Moore, Lane A., Ph.D. U. S. Dept. of Agriculture, Div. of Nutrition and Physiology, Bureau of Dairy Industry, Beltsville, Md. *Head, Section of Dairy Cattle Nutrition.* (**5,** 1940)

Moore, Robert A., M.D. Washington Univ. Med. School, St. Louis, Mo. *Dean and Prof. of Pathology.* (**4,** 1929)

Moore, Robert M., M.D. Univ. of Texas Med. School, Galveston. (**1,** 1932)

Moore, Stanford, Ph.D. Rockefeller Inst. for Med. Research, York Ave. at 66th St., New York City 21. *Assoc. Member.* (**2,** 1949)

Moorhouse, Victor Henry K., M.B. Univ. of Manitoba, Winnipeg, Manitoba, Canada. *Prof. of Physiology.* (**1,** 1912)

Morales, Manuel F., Ph.D. Naval Med. Research

Inst., Bethesda 14, Md. *Staff Member, General Physiology.* (**1,** 1950)

More, Robert H., M.Sc., M.D. Pathological Inst., 3775 University St., Montreal, Quebec, Canada. *Prof. of Pathology, McGill Univ.* (**4,** 1949)

Morehouse, Laurence E., Ph.D. Univ. of Southern California, Los Angeles 7. *Assoc. Prof.* (**1,** 1947)

Morgan, Agnes Fay, Ph.D. Univ. of California, Berkeley 4. *Prof. of Home Economics; Biochemist, Agricultural Exper. Station.* (**2,** 1929; **5,** 1933)

Morgan, Charles F., Ph.D. Georgetown Univ. School of Medicine, Washington, D. C. *Prof. and Chairman of Dept. of Physiology.* (**1,** 1948; **3,** 1947)

Morgan, Clifford T., Ph.D. Johns Hopkins Univ., Psychology Dept., Baltimore 18, Md. (**1,** 1943)

Morgulis, Sergius, Ph.D. Univ. of Nebraska College of Medicine, Omaha 5. *Prof. and Chairman of Dept. of Biochemistry.* (**1,** 1914; **2,** 1916)

Morison, Robert S., M.D. Rockefeller Foundation, 66th St. and York Ave., New York City 21. *Asst. Dir. of Med. Sciences.* (**1,** 1938)

Moritz, Alan R., M.D. Western Reserve Univ., Cleveland, Ohio. *Prof. of Pathology and Dir. of the Institute.* (**4,** 1934)

Morrell, Clarence Allison, Ph.D. Dept. of Natl. Health and Welfare, 35 John St., Ottawa, Ontario, Canada. *Dir., Food and Drug Divisions.* (**3,** 1937)

Morris, Harold P., Ph.D. Natl. Cancer Inst., Bethesda 14, Md. *Principal Biochemist in Nutrition.* (**2,** 1944; **5,** 1943)

Morris, Marion C., Ph.D. Public Health Research Inst. of City of New York, Foot of East 15th St., New York City. *Assoc. in Div. of Infectious Diseases.* (**6,** 1936)

Morrison, Dempsie B., Ph.D. Univ. of Tennessee College of Medicine, Memphis. *Assoc. Prof. of Chemistry.* (**2,** 1936)

Morrison, James L., Ph.D. Emory Univ. School of Medicine, Emory University, Ga. *Assoc. Prof. of Pharmacology.* (**3,** 1944)

Morrison, Peter R., Ph.D. Univ. of Wisconsin, Madison 6. *Assoc. Prof. of Zoology and Physiology.* (**2,** 1950)

Morse, Minerva, Ph.D. 5525 Kimbark Ave., Chicago, Ill. *Research Assoc., Dept. of Pediatrics, Univ. of Chicago.* (**2,** 1934)

Morse, Withrow, Ph.D. 32 Manchester Rd., Eastchester, via Tuckahoe, N. Y. *Consultant.* (**2,** 1914)

Mortimer, Bernard, Ph.D., M.D. 25 N. Ottawa St. Joliet, Ill. *Cook County Hospital, Chicago.* (**1,** 1936)

Morton, John J., M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. of Surgery.* (**4,** 1927)

Moses, Campbell, M.D., Univ. of Pittsburgh School of Medicine, Pittsburgh, Pa. *Dir. of Addison H. Gibson Lab. of Applied Physiology.* (**1,** 1948)

Motley, Hurley L., Ph.D., M.D. Jefferson Hospital, Philadelphia, Pa. *Dir., Cardio-Respiratory Lab., Jefferson Med. College and Assoc. Prof. of Medicine.* (**1,** 1947)

Moulder, James W., Ph.D. Univ. of Chicago, Depts. of Bacteriology, Parasitology and Biochemistry, 5724 Ellis Ave., Chicago 37, Ill. *Asst. Prof. of Biochemistry.* (**2,** 1950)

Moulton, C. Robert, Ph.D. 5602 Dorchester Ave., Chicago, Ill. (**5,** 1933)

Mountain, Isabel M. Ph.D. 9 Coolidge Ave., White Plains, N. Y. (**6,** 1947)

Mountcastle, Vernon B., M.D. Johns Hopkins Univ. Med. School, Dept. of Physiology, 710 N. Washington St., Baltimore 5, Md. *Asst. Prof. of Physiology.* (**1,** 1949)

Moxon, Alvin L., Ph.D. College Station, Brookings, S.D. *Head, Chemistry Dept., South Dakota Agricultural Exper. Station.* (**2,** 1944)

Moyer, Arden W., Ph.D. 407 Mountain View Rd., Englewood, N. J. *Research Biochemist, Lederle Labs., Pearl River, N. Y.* (**6,** 1946)

Moyer, Carl A., Ph.D. 6417 Glenrose Ct., Dallas 1, Tex. *Prof. of Exper. Surgery, Southwestern Med. College.* (**1,** 1943)

Mudd, Stuart, M.A., M.D. Univ. of Pennsylvania, Philadelphia. *Prof. of Bacteriology.* (**1,** 1921; **4,** 1927; **6,** 1927)

Muehlberger, Clarence W., Ph.D. State Health Dept. Labs., Lansing, Mich. *State Toxicologist.* (**3,** 1928)

Mueller, J. Howard, Ph.D. Harvard Med. School, 25 Shattuck St., Boston, Mass. *Prof. of Bacteriology and Immunology.* (**2,** 1922; **4,** 1927; **6,** 1920)

Mukherji, B., D.Sc. All-India Inst. of Hygiene and Public Health, Calcutta. *Dir. of Biochemical Standardization Lab.* (**3,** 1938)

Mulder, Arthur G., Ph.D. Stritch School of Medicine of Loyola Univ., 706 S. Wolcott St., Chicago, Ill. *Prof. and Chairman of Dept. of Physiology.* (**1,** 1937)

Mulford, Dwight J., Ph.D. Kansas Univ. Med. School, Dept. of Biochemistry, Lawrence. *Assoc. Prof.* (**2,** 1948)

Mulinos, M. G., M.D., Ph.D. New York Med. College, Flower and Fifth Ave. Hospitals, Fifth Ave. and 105th St., New York City 29. *Assoc. Prof. of Pharmacology and Physiology.* (**3,** 1931)

Mull, James W., Ph.D. 1870 Grove Ave., Quincy, Ill. *Assoc., Quincy Specialties Co.* (**2,** 1937)

Müller, Otto H., R.N. Dr. State Univ. of New York, Med. Center at Syracuse, Dept. of Physiology, Syracuse 10. (**1,** 1947)

Muller, Robert H., M.D. 36 Glen Ridge Pkwy., Montclair, N. J. *Captain, Med. Corps.* (**6,** 1950)

Mulligan, Richard M., M.D. Univ. of Colorado

School of Medicine, 4200 East 9th Ave., Denver. *Prof. of Pathology.* (**4,** 1947)

Mullin, F. J., Ph.D. Univ. of Chicago, Chicago 37, Ill. *Asst. Prof. of Physiology.* (**1,** 1937)

Munro, Muriel Platt, Ph.D. Jefferson Med. College, 1025 Walnut St., Philadelphia 7, Pa. *Research Chemist.* (**2,** 1948)

Munsell, Hazel E., Ph.D. Bromatological Lab., Natl. Inst. of Nutrition, Quito, Ecuador. *Director.* (**5,** 1933)

Munson, Paul L., Ph.D. Harvard School of Dental Medicine, 188 Longwood Ave., Boston 15, Mass. *Asst. Prof. of Dental Science.* (**2,** 1950)

Muntwyler, Edward, Ph.D. State Univ. Med. Center at New York, 350 Henry St., Brooklyn 2, N. Y. *Prof. of Biochemistry.* (**2,** 1931)

Muntz, John A., Ph.D. 3356 Euclid Heights Blvd., Cleveland Heights, Ohio. *Asst. Prof., Western Reserve Univ.* (**2,** 1948)

Murlin, John R., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. Emeritus of Physiology and Dir. Emeritus of Dept. of Vital Economics.* (**1R,** 1906; **2,** 1908; **5,** 1933)

Murphy, Quillian R., M.D., Ph.D. Univ. of Wisconsin Med. School, Dept. of Physiology, Madison 6. *Asst. Prof.* (**1,** 1949)

Murray, Everitt G. D., M.A. McGill Univ., Montreal, Quebec, Canada. *Prof. and Head of Dept. of Bacteriology and Immunology; Bacteriologist-in-Chief to the Royal Victoria Children's Memorial and Alexandra Hospitals.* (**6,** 1933)

Murray, F. Joseph, Ph.D. The Wm. S. Merrell Co., Lockland Station, Cincinnati, Ohio. *Asst. Chief Bacteriologist.* (**6,** 1950)

Mushett, Charles W., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Head of Dept. of Pathology.* (**4,** 1948)

Muus, Jytte, Mag. Scient. Mount Holyoke College, South Hadley, Mass. *Prof. of Physiology.* (**2,** 1946)

Myers, Chester N., Ph.D. 34 Cedar Place, Yonkers 5, N. Y. *Chief, Div. Chemotherapy, New York Skin and Cancer Hospital; Dir. of Chemical and Clin. Research, H. A. Metz Labs., Inc.* (**2,** 1922)

Nachmansohn, David, M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Research Assoc. in Neurology.* (**1,** 1940)

Nadler, J. Ernest, M.D., Med.D.Sc. 80-16 Lefferts Blvd., Kew Gardens 15, N. Y. (**3,** 1940)

Nahum, Louis N., M.D. 1142 Chapel St., New Haven, Conn. *Asst. Prof. of Physiology, Yale Univ.* (**1,** 1934)

Najjar, Victor A., M.D. Johns Hopkins Hospital, Baltimore 5, Md. *Assoc. Prof. of Pediatrics.* (**2,** 1946)

Nash, Thomas P., Jr., Ph.D. 875 Monroe Ave., Memphis, Tenn. *Prof. of Chemistry, Univ. of Tennessee College of Medicine; Dean of School of Biological Sciences.* (**2,** 1923)

Nasset, Edmund S., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. of Physiology.* (**1,** 1932; **5,** 1940)

Nastuk, William L., Ph.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Physiology, 630 W. 168th St., New York City 32. *Instr. in Physiology.* (**1,** 1949)

Natelson, Samuel, Ph.D. Rockford Memorial Hospital, 507 Chestnut St., Rockford, Ill. *Chairman, Dept. of Biochemistry.* (**2,** 1950)

Nathanson, Ira T., M.S., M.D. Massachusetts General Hospital, Boston. *Asst. in Surgery; Instr. in Surgery, Harvard Med. School.* (**1,** 1943)

Nathanson, Morris H., M.D. 6333 Wilshire Blvd., Los Angeles, Calif. *Assoc. Clin. Prof. of Medicine, Univ. of Southern California School of Medicine.* (**3,** 1940)

Necheles, Heinrich, M.D., Ph.D. Michael Reese Hospital, Chicago, Ill. *Dir. of Dept. of Gastrointestinal Physiology; Professorial Lecturer in Physiology, Univ. of Chicago.* (**1,** 1929)

Neff, William D., Ph.D. Univ. of Chicago, Dept. of Psychology, Faculty Exchange, Chicago 37, Ill. *Assoc. Prof.* (**1,** 1950)

Neil, James M., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Prof. of Bacteriology and Immunology.* (**6,** 1930)

Neilson, Charles Hugh, Ph.D., M.D. Humboldt Bldg., St. Louis, Mo. *Assoc. Dean and Prof. of Medicine, St. Louis Univ. Med. School.* (**2,** 1906)

Nelson, Arthur A., M.D., Ph.D. Federal Security Agency, Food and Drug Admin., Div. of Pharmacology, Washington 25, D. C. *Med. Officer (Pathology).* (**4,** 1942)

Nelson, Carl Ferdinand, M.D., Ph.D. Univ. of Kansas, Dept. of Biochemistry, Lawrence. *Prof. of Physiological Chemistry.* (**2,** 1914)

Nelson, Carl T., M.A., M.D. Harkness Pav. Presbyterian Hosp., 180 Ft. Washington Ave., New York City 32. *Dermatologist.* (**6,** 1943)

Nelson, Erwin E., Ph.D., M.D. Food and Drug Admin., Washington 25, D. C. *Med. Dir.; Adjunct Clin. Prof. of Pharmacology, George Washington Univ. School of Medicine.* (**3,** 1924)

Nelson, E. M., Ph.D. Food and Drug Admin., Washington 25, D. C. *Chief, Div. of Nutrition.* (**2,** 1927; **5,** 1933)

Nelson, John B., Ph.D. Rockefeller Inst. for Med. Research, New York City. *Assoc. Member.* (**4,** 1934)

Nelson, John M., Ph.D. Columbia Univ., New York City 27. *Prof. Emeritus of Organic Chemistry.* (**2,** 1923)

Nelson, Marjorie M., Ph.D. Univ. of California, Inst. of Exper. Biology, Berkeley. *Research Assoc.* (**5,** 1950)

Nelson, Norton, Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Assoc. Prof. of Industrial Medicine.* (**2,** 1946)

Nelson, P. Mabel, Ph.D. Iowa State College, Ames. *Dean, Div. of Home Economics.* (**5,** 1934)

Nelson, Tell, M.A., M.D. 1415 Kalakaua Ave., Honolulu 19, T.H. *Practicing Physician.* (**6,** 1938)

Nelson, Victor E., M.S. 423 Niagara St., Eau Claire, Wis. (**2,** 1924)

Nelson, Warren O., Ph.D. Univ. of Iowa School of Medicine, Iowa City. *Prof. of Anatomy.* (**1,** 1937)

Neter, Erwin, M.D. Children's Hospital, 219 Bryant St., Buffalo, N. Y. *Attending Bacteriologist.* (**6,** 1937)

Nettleship, Anderson, M.D. Univ. of Arkansas School of Medicine, Little Rock. *Prof. and Head of Dept. of Pathology.* (**4,** 1942)

Neuberg, Carl, Ph.D., M.D. Med., Chem. D. 536 W. 113th St., New York City 25. *Research Prof., New York Univ.* (**2,** 1944)

Neuman, William F., Ph.D., Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Assoc. Prof. of Pharmacology.* (**2,** 1949)

Neumann, Charles, M.D. 525 E. 68th St., New York City 21. *Resident Surgeon, New York Hospital; Instr. in Surgery, New York Univ. Post-Grad. Med. School.* (**1,** 1944)

Neurath, Hans, Ph.D. Univ. of Washington School of Medicine, Dept. of Biochemistry, Seattle 5. *Prof. and Exec. Officer of Dept.* (**2,** 1940; **6,** 1944)

Neuwelt, Frank, M.D. 504 Broadway, Gary, Ind. *Research Assoc., Dept. of Gastrointestinal Research, Michael Reese Hospital.* (**1,** 1940)

Neuwirth, Isaac, Ph.D. 209 E. 23rd St., New York City 10. *Prof. of Pharmacology, New York Univ. College of Dentistry.* (**2,** 1924; **3,** 1931)

Newman, Elliot V., M.D., Johns Hopkins Hospital, Baltimore, Md. *Asst. Prof. of Medicine.* (**1,** 1948)

Newman, Henry W., M.D. Stanford Med. School, Clay and Webster Sts., San Francisco 15, Calif. *Assoc. Prof. of Medicine.* (**3,** 1949)

Nice, Leonard B., Ph.D. Chicago Med. School, 710 S. Wolcott Ave., Chicago, Ill. *Prof. of Physiology and Pharmacology.* (**1,** 1921)

Nicholas, John S., Ph.D. Yale Univ., Osborn Zoological Lab., New Haven, Conn. *Bronson Prof. of Comparative Anatomy.* (**1,** 1927)

Nicholson, Hayden C., M.S., M.D. Univ. of Arkansas, School of Medicine, Little Rock. *Dean.* (**1,** 1932)

Nickerson, John L., Ph.D. Columbia Univ., 630 W. 168th St., New York City 32. *Assoc. Prof. of Physiology.* (**1,** 1945)

Nickerson, Mark, Ph.D., M.D. Univ. of Utah School of Medicine, Salt Lake City. *Assoc. Prof. of Pharmacology.* (**3,** 1947)

Nicoll, Paul A., Ph.D. Indiana Univ., Bloomington. *Asst. Prof. of Physiology.* (**1,** 1945)

Niemann, Carl G., Ph.D. California Inst. of Technology, Pasadena 4. *Prof. of Organic Chemistry.* (**2,** 1940)

Nigg, Clara, Ph.D. E. R. Squibb and Sons, New Brunswick, N. J. *Head of Depts. of Bacteriology and Virology, and of Microbiological Development.* (**6,** 1929)

Nims, Leslie F., Ph.D. Brookhaven Natl. Lab., Biology Dept., Upton, Long Island, N. Y. *Acting Head of Dept.* (**1,** 1940)

Noble, Robert Laing, M.D., Ph.D. Univ. of Western Ontario, Dept. of Med. Research, London, Ontario, Canada. (**1,** 1941)

Noell, Werner K., M.D. U.S.A.F. School of Aviation Medicine, Randolph Field, Tex. *Research Physiologist.* (**1,** 1950)

Nord, F. F., Ph.D. Fordham Univ., Dept. of Organic Chemistry, New York City. *Prof. of Organic Chemistry and Enzymology.* (**2,** 1940)

Norris, Earl R., Ph.D. Univ. of Washington, Seattle. *Prof. of Biochemistry and Exec. Officer of Dept.* (**2,** 1938)

Norris, L. C., Ph.D. Cornell Univ., Rice Hall, Ithaca, N. Y. *Prof. of Nutrition.* (**2,** 1939; **5,** 1934)

Northrop, J. H., Ph.D., Sc.D. Univ. of California, Berkeley 4. *Visiting Prof. of Bacteriology; Member of Rockefeller Inst.* (**2,** 1938)

Northup, David W., Ph.D. West Virginia Univ. Med. School, Morgantown. *Prof. of Physiology.* (**1,** 1936)

Novy, F. G., M.D., Sc.D. 721 Forest Ave., Ann Arbor, Mich. *Dean Emeritus of Med. School and Prof. Emeritus of Bacteriology, Univ. of Michigan.* (**2,** 1906; **4R,** prior to 1919)

Nowinski, W. W., Ph.D. Univ. of Texas School of Medicine, Galveston. *Research Assoc.* (**1,** 1948)

Nungester, Walter James, Ph.D., M.D. Univ. of Michigan, Dept. of Bacteriology, Ann Arbor. *Professor.* (**6,** 1949)

Oberst, Fred W., Ph.D. Med. Div., Army Chemical Center, Md. *Chief, Gassing Section.* (**2,** 1936; **3,** 1949)

Ochoa, Severo, M.D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Prof. of Pharmacology.* (**2,** 1942)

Ogden, Eric. Ohio State Univ. College of Medicine, Columbus 10. *Prof. of Physiology.* (**1,** 1941)

O'Hare, James P., M.D. 520 Commonwealth Ave., Boston, Mass. *Physician, Peter Bent Brigham Hospital; Lecturer in Medicine, Harvard Med. School.* (**4,** 1927)

Ohlson, Margaret A., Ph.D. Michigan State College, Dept. of Foods and Nutrition, East Lansing. *Prof. and Head of Dept. of Foods and Nutrition.* (**5,** 1945)

Okey, Ruth, Ph.D. Univ. of California, 1581 Life

Sciences Bldg., Berkeley 4. *Prof. of Home Economics.* (**2,** 1922; **5,** 1933)

Olcott, Harold S., Ph.D. U. S. Dept. of Agriculture, Western Regional Research Lab., Albany 6, Calif. *Head of Vegetable Processing Div.* (**2,** 1935)

Oldham, Helen, Ph.D. Univ. of Chicago, Chicago, Ill. *Asst. Prof., Dept. of Home Economics.* (**5,** 1946)

Oleson, J. J., Ph.D. American Cyanamid Co., Lederle Labs. Div., Pearl River, N. Y. *Head, Dept. of Nutrition and Exper. Biology.* (**2,** 1950)

Olitsky, Peter K., M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Member.* (**6,** 1917)

Oliver, Jean Redman, M.D. Hoagland Lab., 335 Henry St., Brooklyn, N. Y. *Prof. of Pathology, N. Y. State Med. Center at New York City, College of Medicine.* (**1,** 1924; **4,** 1924)

Oliver, Wade W., M.D. Rockefeller Foundation, New York City. *Assoc. Dir. of Div. of Med. Sciences.* (**4,** 1925)

Olmsted, J. M. D., Ph.D. Univ. of California, Berkeley. *Prof. of Physiology.* (**1,** 1920)

Olsen, Norman S., Ph.D. Thayer Veterans Admin. Hospital, Research Lab., Nashville 5, Tenn. *Appointment in Dept. of Biochemistry, Vanderbilt Univ.* (**1,** 1948; **2,** 1949)

Olson, Byron J., Ph.D., M.D. National Insts. of Health, Bethesda, Md. *Surgeon, Div. of Infectious Diseases.* (**6,** 1948)

Olson, Carl, Jr., D.V.M., Ph.D. Univ. of Nebraska, Lincoln. *Chairman of Dept. of Animal Pathology and Hygiene.* (**4,** 1937)

Opdyke, David F., Ph.D. Western Reserve Univ. Med. School, Cleveland 6, Ohio. *Assoc. Prof. of Physiology.* (**1,** 1945)

Opie, Eugene L., M.D., Sc.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member.* (**1R,** 1906; **4,** 1913; **6R,** 1923)

Oppenheimer, Enid Tribe. 124 E. 61st. St., New York City. *Instr. in Physiology, Columbia Univ.* (**1,** 1932)

Oppenheimer, Ernst, M.D. Ciba Pharmaceutical Products, Inc., Lafayette Park, Summit, N. J. *Vice-Pres. in charge of Med. Research.* (**3,** 1944)

Oppenheimer, Morton Joseph, Ed.M., M.D. 3400 N. Broad St., Philadelphia, Pa. *Prof. of Physiology, Temple Univ. School of Medicine.* (**1,** 1942)

Orent-Keiles, Elsa, D.Sc. U. S. Dept. of Agriculture, Bureau of Human Nutrition and Home Economics, Beltsville, Md. *Nutrition Chemist, Foods and Nutrition Div.* (**2,** 1935; **5,** 1935)

Ort, John M., Ph.D. 401 Codwise Ave., New Brunswick, N. J. *Dir. of Research, Carroll Dunham Smith Pharmacal Co.* (**2,** 1932)

Orten, Aline Underhill, Ph.D. Wayne Univ. College of Medicine, Detroit 26, Mich. *Research Assoc., Dept. of Physiological Chemistry.* (**5,** 1946)

Orten, James M., Ph.D. Wayne Univ. College of Medicine, Detroit 26, Mich. *Assoc. Prof. of Physiological Chemistry.* (**2,** 1936; **5,** 1937)

Orth, O. Sidney, Ph.D., M.D. Univ. of Wisconsin, S. M. I., Madison. *Prof. of Pharmacology.* (**1,** 1942; **3,** 1944)

Osborne, Stafford L., Ph.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago, Ill. *Prof. and Chairman of Dept. of Physical Medicine.* (**1,** 1941)

Oser, Bernard L., Ph.D. Food Research Labs., Inc., 48–14 33rd St., Long Island City 1, N. Y. *Director.* (**5,** 1945)

Osler, Abraham G., Ph.D. Johns Hopkins Hospital, Monument and Wolfe Sts., Baltimore, Md. *Dir. of Serologic Lab.* (**6,** 1949)

Oster, Robert H., Ph.D. Univ. of Maryland Med. School, Greene and Lombard Sts., Baltimore. *Asst. Prof. of Physiology.* (**1,** 1938)

Osterberg, Arnold E., Ph.D. Abbott Labs., Med. Dept., N. Chicago, Ill. *Assoc. in Med. Dept.* (**2,** 1933)

Osterhout, Marian I. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Assoc., Div. of General Physiology.* (**1,** 1927)

Osterhout, W. J. V., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member Emeritus.* (**1,** 1910)

Otis, Arthur B., Ph.D. Univ. of Rochester, Rochester 7, N. Y. *Asst. Prof. of Physiology.* (**1,** 1946)

Ott, Walther H., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Head of Dept. of Biological Control and Poultry Nutrition.* (**5,** 1949)

Overman, Richard R., Ph.D. Univ. of Tennessee College of Medicine, Division of Physiology, Memphis. *Assoc. Prof.* (**1,** 1946)

Owen, Seward E., Ph.D. 418 S. 20th Ave., Maywood, Ill. (**1,** 1938)

Pace, Donald M., Ph.D. Univ. of Nebraska College of Pharmacy, Dept. of Physiology and Pharmacology, Lincoln. *Assoc. Prof. of Physiology.* (**1,** 1944)

Pace, Nello, Ph.D. Univ. of California, Berkeley 4. *Asst. Prof. of Physiology.* (**1,** 1947)

Pack, George T., M.D. 139 E. 36th St., New York City 16. *Fellow in Cancer Research, Memorial Hospital.* (**1,** 1924)

Packchanian, Ardzroony, Ph.D. Univ. of Texas School of Medicine, Galveston. *Assoc. Prof. of Bacteriology and Tropical Medicine; Dir. of Lab. of Microbiology.* (**6,** 1943)

Page, Edouard, Ph.D. Laval Univ. Med. School. Dept. of Biochemistry, Quebec, Canada. (**1,** 1947).

Page, Ernest W., M.D. Univ. of California Hos

pital, Dept. of Obstetrics and Gynecology, San Francisco 22. *Asst. Prof.* (**1**, 1947)

Page, Irvine H., M.D. Cleveland Clinic Foundation, 2040 E. 93rd St., Cleveland 6, Ohio. *Dir. of Research.* (**1**, 1937; **2**, 1932)

Painter, Elizabeth E., Ph.D. Univ. of Illinois School of Medicine, 1853 W. Polk St., Chicago. *Asst. Prof. of Physiology.* (**1**, 1941)

Palmer, John W., Ph.D. E. R. Squibb and Sons, Georges Rd., New Brunswick, N. J. (**6**, 1949)

P'An, S. Y., M.D. Chas. Pfizer and Co., Inc., Dept. of Pharmacology, 11 Bartlett St., Brooklyn 6, N. Y. *In Charge, Dept. of Pharmacology.* (**3**, 1941)

Pangborn, Mary C., Ph.D. New York State Dept. of Health, Div. of Labs. and Research, New Scotland Ave., Albany, N. Y. *Sr. Biochemist.* (**2**, 1941)

Papageorge, Evangeline, Ph.D. Emory Univ. School of Medicine, Dept. of Biochemistry, Emory Univ., Georgia. *Assoc. Prof.* (**2**, 1950)

Pappenheimer, A. M., Jr., Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Prof. of Microbiology.* (**2**, 1941; **6**, 1938)

Pappenheimer, Alwin M., M.D. 45 Holden St, Cambridge, Mass. *Prof. Emeritus of Pathology, Columbia Univ.* (**4**, 1922)

Pappenheimer, John R., Ph.D. Harvard Med. School, Boston, Mass. *Assoc. in Physiology.* (**1**, 1946)

Papper, E. M., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City. *Prof. of Anesthesiology.* (**3**, 1949)

Park, Edwards A., M.D. Johns Hopkins Hospital, Baltimore, Md. *Prof. Emeritus of Pediatrics, Johns Hopkins Univ.* (**4**, 1923)

Parker, George H., Sc.D. 16 Berkeley St., Cambridge, Mass. *Prof. Emeritus of Zoology, Harvard Univ.* (**1R**, 1909)

Parker, Robert F., M.D. Univ. Hosps., 2065 Adelbert Rd., Cleveland, Ohio. *Assoc. Prof. of Microbiology and Medicine.* (**4**, 1942; **6**, 1935)

Parkins, William M., Ph.D. Route 2, Chariton, Iowa. (**1**, 1939)

Parpart, Arthur K., Ph.D. Princeton Univ., Guyot Hall, Princeton, N. J. *Prof. of Physiology.* (**1**, 1937)

Parr, Leland W., Ph.D. George Washington Univ. School of Medicine, 1335 H St. N.W., Washington, D. C. *Prof. of Bacteriology.* (**4**, 1940)

Parrack, Horace O., Ph.D. Wright-Patterson Air Force Base. Aero-Med. Lab., Dayton, Ohio. *Research Physiologist.* (**1**, 1948)

Parsons, Helen T., M.D., Ph.D. Univ. of Wisconsin, Madison. *Prof. of Home Economics; in charge of Purnell Research in Nutrition.* (**2**, 1929; **5**, 1933)

Parsons, Robert J., M.D. Highland Alameda County Hospital, 2701 14th Ave., Oakland, Calif. *Pathologist; Dir. of Labs.* (**4**, 1939)

Paschkis, Karl E., M.D. Jefferson Med. College, 1025 Walnut St., Philadelphia 7, Pa. *Asst. Prof. of Medicine and Assoc. in Physiology; Chief of Endocrine Clinic, Jefferson Hospital.* (**1**, 1942)

Patt, Harvey M., Ph.D. Argonne Natl. Lab., Chicago, Ill. *Physiologist.* (**1**, 1948)

Patterson, Thos. L., Ph.D., Sc.D. Wayne Univ. College of Medicine, 1512 St. Antoine St., Detroit 26, Mich. *Research Prof. of Physiology; Prof. of Oro-Physiology and Dir. of Dental Research, Univ. of Detroit School of Dentistry.* (**1**, 1920)

Patterson, Wilbur I., Ph.D. Food and Drug Admin., Washington 25, D. C. *Chief, Organic Analytical Methods Branch, Div. of Food.* (**2**, 1948)

Patton, H. D., Ph.D., M.D. Univ. of Washington School of Medicine, Dept. of Physiology and Biophysics, Seattle 5. *Assoc. Prof.* (**1**, 1947)

Paul, John R., M.A., M.D. Yale Univ. Med. School, 333 Cedar St., New Haven, Conn. *Prof. of Preventive Medicine.* (**4**, 1927; **6**, 1937)

Pearce, John Musser, M.D. 525 E. 68th St., New York City 21. *Prof. of Pathology, Cornell Univ. Med. College; Attending Pathologist, New York Hospital.* (**4**, 1942)

Pearce, Louise, M.D. Trevenna Farm, Belle Mead, N. J. *Assoc. Member in Pathology and Bacteriology, Rockefeller Inst. for Med. Research.* (**4**, 1925)

Pearcy, Frank, Ph.D., M.D. 2606 Oak Lawn Ave., Dallas, Tex. (**1**, 1928)

Pearlman, William H., Ph.D. Jefferson Med. College, 1025 Walnut St., Philadelphia 7, Pa. *Assoc. Prof., Biochemistry Dept.* (**2**, 1946)

Pearse, Herman E., M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. of Surgery.* (**4**, 1932)

Pearson, Harold E., M.D., M.P.H. Univ. of Southern California Med. School, Los Angeles. *Assoc. Prof. of Bacteriology; Med. Microbiologist, Los Angeles County Hospital.* (**6**, 1948)

Pearson, P. B., Ph.D. U. S. Atomic Energy Commission, Div. of Biology and Medicine, Washington 25, D. C. *Chief of Biology Branch.* (**2**, 1944; **5**, 1940)

Pease, Marshall C., Jr., M.D. Branchville Rd., R.F.D. 4, Ridgefield, Conn. *Historian of American Acad. of Pediatrics.* (**6**, 1920)

Peck, Robert L., Ph.D. 939 Madison Ave., Plainfield, N. J. *Sr. Chemist, Merck and Co., Inc.* (**2**, 1947)

Penfield, Wilder G., M.D., D.Sc. McGill Univ., Montreal, Quebec, Canada. *Prof. of Neurology and Neurosurgery.* (**1**, 1932)

Pennington, Mary Engle, Ph.D. 233 Broadway, New York City 7. *Consultant in Connection with*

the Handling, Transportation and Storage of Perishables. (**2,** 1908)

Penrod, Kenneth E., Ph.D. Duke Univ. School of Medicine, Durham, N. C. *Assoc. Prof. of Physiology.* (**1,** 1946)

Peoples, S. Anderson, M.D. Univ. of California, School of Veterinary Medicine, Dept. of Pharmacology, Davis. *Prof. of Comparative Pharmacology.* (**3,** 1937)

Perkins, John F., Jr., M.D. 5621 S. Kenwood Ave., Chicago 37, Ill. *Asst. Prof. of Physiology, Univ. of Chicago.* (**1,** 1950)

Perlman, Ely, M.D. 77-14 113th St., Forest Hills, L. I., N. Y. *Research Assoc. Mt. Sinai Hospital.* (**6,** 1944)

Permar, Howard H., M.D. Pathologic Labs., Mercy Hospital, Pittsburgh, Pa. *Dir. of Labs.* (**4,** 1925)

Petermann, Mary L., Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 E. 68th St., New York City 21. *Associate.* (**2,** 1947)

Peters, John P., M.D. 123 Marvel Rd., New Haven 15, Conn. *John Slade Ely Prof. of Medicine, Yale Univ. School of Medicine.* (**2,** 1922)

Peters, Lawrence, Ph.D. Western Reserve Univ. Med. School, Dept. of Pharmacology, 2109 Adelbert Rd., Cleveland 6, Ohio. *Asst. Prof. of Pharmacology.* (**3,** 1946)

Peterson, Lysle H., M.D. Univ. of Pennsylvania Med. School, Dept. of Physiology, Philadelphia 4. *Research Fellow in Physiology.* (**1,** 1950)

Peterson, William H., Ph.D. Univ. of Wisconsin, Biochemistry Bldg., Madison. *Prof. of Biochemistry.* (**2,** 1919; **5,** 1936)

Pett, L. B., M.D., Ph.D. Dept. of Natl. Health and Welfare, Ottawa, Ontario, Canada. *Dir. of Nutrition.* (**2,** 1937; **5,** 1945)

Pfeiffer, Carl C., Ph.D., M.D. Univ. of Illinois, 1853 W. Polk St., Chicago 12. *Prof. and Chairman of Dept. of Pharmacology.* (**3,** 1938)

Pfiffner, Joseph J., Ph.D. Parke, Davis & Co., Research Labs., Detroit 32, Mich. *Research Chemist.* (**1,** 1931; **2,** 1931; **5,** 1946)

Phatak, Nilkanth M., Ph.D. Univ. of Oregon, School of Dentistry, Portland. *Assoc. Prof. and Head of Dept. of Pharmacology.* (**3,** 1941)

Philips, Frederick S., Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 E. 68th Street, New York City 21. *Assoc. Member.* (**3,** 1947)

Phillips, Paul H., Ph.D. Univ. of Wisconsin, Madison. *Prof. of Biochemistry.* (**2,** 1940; **5,** 1938)

Phillips, Robert Allan, M.D. U. S. Naval Med. Research Unit No. 3, American Embassy at Cairo, Egypt, %Navy Pouch Section, Navy Dept., Washington 25, D. C. (**1,** 1938)

Pick, Ernst Peter, M.D. 19 E. 98th St., New York City. *Assoc. Pharmacologist, Mt. Sinai Hospital.* (**3,** 1940)

Pierce, Harold B., Ph.D. Univ. of Vermont College of Medicine, Burlington. *Prof. and Chairman of Dept. of Biochemistry.* (**2,** 1929; **5,** 1933)

Pierce, Harold Fisher, Ph.D., M.D. State Veterans Hospital, Rocky Hill. Conn. (**1,** 1928)

Pierce, Ira H., Ph.D. Univ. of Iowa, Iowa City. *Assoc. Prof. of Pharmacology.* (**3,** 1933)

Pigman, William W., Ph.D. Univ. of Alabama, Med.-Dent. Schools, Biochemistry Dept., Birmingham. *Assoc. Prof.* (**2,** 1950)

Pike, Frank H., Ph.D. 437 W. 59th St., New York City 19. *Assoc. Prof. of Physiology, Columbia Univ.* (**1,** 1907)

Pilcher, J. Douglas, M.D. City Hospital, Scranton Rd., Cleveland, Ohio. *Assoc. Prof. of Pediatrics, Western Reserve Univ. School of Medicine.* (**3R,** 1911)

Pillemer, Louis, Ph.D. Western Reserve Univ., Inst. of Pathology, Cleveland, Ohio. *Prof. of Biochemistry.* (**2,** 1950; **6,** 1942)

Pincus, Gregory, Sc.D. Worcester Foundation for Exper. Biology, 222 Maple Ave., Shrewsbury, Mass. (**1,** 1935)

Pincus, I. J., M.D. Jefferson Med. College, Philadelphia, Pa. *Assoc. in Physiology.* (**1,** 1948)

Pinkerton, Henry, M.D. St. Louis Univ. School of Medicine, St. Louis, Mo. *Prof. of Pathology.* (**4,** 1931)

Pinkston, James O., Ph.D. American Univ. of Beirut, Beirut, Lebanon. *Prof. of Physiology.* (**1,** 1936; **3,** 1939)

Pinson, Ernest A., Ph.D. 2118 C-44th St., Los Alamos, N. Mex. (**1,** 1943)

Pittman, Martha S., Ph.D. Manhattan, Kan. (**5,** 1933)

Pitts, Robert F., Ph.D., M.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Prof. and Head of Dept. of Physiology and Biophysics.* (**1,** 1934)

Plummer, Albert J., M.D., Ph.D. Ciba Pharmaceutical Products, Inc., Summit, N. J. *Sr. Pharmacologist.* (**3,** 1950)

Pollack, Herbert, Ph.D., M.D. 45 E. 66th St., New York City 21. *Assoc. Physician and Chief of Metabolism Clinics, Mt. Sinai Hospital.* (**1,** 1933; **5,** 1935)

Pomerat, Charles Marc, Ph.D. Univ. of Texas Med. School, Galveston. *Prof. of Anatomy.* (**1,** 1944)

Pommerenke, W. T., Ph.D., M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 7, N. Y. *Assoc. Prof. of Obstetrics and Gynecology.* (**1,** 1947)

Pond, Samuel E., Ph.D. 400 S. Main St., East Hartford, Conn. *Consulting Engineer, P. and W. A. Div., United Aircraft Corp.* (**1,** 1924)

Ponder, Eric, M.D., Sc.D. Nassau Hospital, Mineola, Long Island, N. Y. (**1,** 1931)

Poppen, John R., M.D. Aero. Med. Acceleration

Lab., Naval Air Development Center, Johnsville, Pa. *Director.* (**1,** 1948)

Popper, Hans, Ph.D., M.D. Cook County Hospital, 1825 W. Harrison St., Chicago 12, Ill. *Dir. of Dept. of Pathology and Scientific Dir. of Hektoen Inst. for Med. Research; Assoc. Prof. of Pathology, Northwestern Univ. Med. School.* (**4,** 1942)

Porter, Eugene L., Ph.D. Univ. of Texas Med. Branch, Galveston. *Prof. of Physiology.* (**1,** 1913)

Porter, J. R., Ph.D. State Univ. of Iowa, College of Medicine, Iowa City. *Prof. of Bacteriology.* (**6,** 1950)

Porter, Thelma, Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. and Chairman of Dept. of Home Economics.* (**5,** 1944)

Post, Robert Lickely, M.D. 6310 Vanderbilt Med. School, Nashville 4, Tenn. *Instr. in Physiology.* (**1,** 1950)

Poth, Edgar J., M.D., Ph.D. Univ. of Texas Med. School, Galveston. *Prof. of Surgery.* (**1,** 1946)

Potter, Truman S., M.D. 117 Northampton Rd., Amherst, Mass. *Independent Research Worker.* (**6,** 1939)

Potter, Van R., Ph.D. Univ. of Wisconsin Med. School, McArdle Memorial Lab., Madison. *Prof. of Oncology.* (**2,** 1941)

Powell, Horace M., Sc.D. 5565 Washington Blvd., Indianapolis, Ind. *Head Bacteriologist, Eli Lilly & Co.* (**6,** 1934)

Power, Marschelle H., Ph.D. Mayo Clinic, Rochester, Minn. *Prof. of Physiological Chemistry, Mayo Foundation, Univ. of Minnesota.* (**2,** 1932)

Pratt, Frederick H., M.D. Boston Univ. School of Medicine, Boston, Mass. *Prof. Emeritus of Physiology.* (**1R,** 1919)

Pratt, Joseph H., M.D., Sc.D. New England Med. Center, 25 Bennet St., Boston, Mass. *Physician-in-Chief, Boston Dispensary and Joseph H. Pratt Diagnostic Clinic; Prof. Emeritus of Medicine, Tufts Med. School.* (**1,** 1910; **3,** 1910; **4,** 1927)

Preisler, Paul W., Ph.D., Washington Univ. School of Medicine, 4580 Scott Ave., St. Louis 10, Mo. *Research Assoc., Biochemistry.* (**2,** 1931)

Pressman, David, Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 East 68 St., New York City 21. *Sr. Fellow in Cancer Research.* (**6,** 1949)

Price, Clifford W., Ph.D. U. S. Food and Drug Admin., Washington, D. C. *Bacteriologist, Antibiotics Analyst, Div. of Penicillin Control and Immunology.* (**6,** 1946)

Prinzmetal, Myron, M.A., M.D. 300 S. Beverly Drive, Beverly Hills, Calif. *Sr. Attending Physician, Cedars of Lebanon Hospital, Los Angeles.* (**3,** 1941)

Prosser, C. Ladd, Ph.D. Univ. of Illinois, Natural History Bldg., Urbana. (**1,** 1935)

Puestow, Charles B., M.D., Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago. *Asst. Prof. of Surgery.* (**1,** 1934)

Pugsley, L. I., Ph.D. Dept. of Natl. Health and Welfare, Food and Drug Lab., Ottawa, Ontario, Canada. *Chief of Lab. Service.* (**2,** 1937)

Putnam, Frank W., Ph.D. Univ. of Chicago, 947 E. 58th St., Chicago 37, Ill. *Asst. Prof. of Biochemistry.* (**2,** 1947)

Quackenbush, Forrest W., Ph.D. R-2, Brookston, Ind. *Prof. and Head of Dept. of Agricultural Chemistry, Purdue Univ.* (**2,** 1946)

Quaife, Mary L., Ph.D. Distillation Products, Inc., Div. of Eastman Kodak Co., Rochester 3, N. Y. *Sr. Research Chemist, Dept. of Biochemistry.* (**2,** 1948)

Quastel, J. H., D.Sc., Ph.D. Research Inst., Montreal General Hosp., 3619 University St. Montreal, Quebec, Canada. *Prof. of Biochemistry, McGill Univ.* (**2,** 1948)

Queen, Frank B., M.D. Univ. of Oregon School of Medicine, 3181 S.W. Sam Jackson Park Rd., Portland. *Prof. of Pathology.* (**4,** 1941)

Quick, Armand J., M.D., Ph.D. Marquette Med. School, 561 N. 15th St., Milwaukee 3, Wis. *Prof. and Dir. of Dept. of Biochemistry.* (**2,** 1932; **3,** 1937)

Quigley, J. P., Ph.D. Univ. of Tennessee, Memphis 3. *Prof. and Chief of Div. of Physiology.* (**1,** 1929; **3,** 1945)

Quilligan, J. J., M.D., M.B. Univ. of Michigan, School of Public Health, Observatory St., Ann Arbor. *Research Assoc., Dept. of Epidemiology; Instr., Dept. of Pediatrics.* (**6,** 1950)

Quimby, Freeman Henry, Ph.D. Office of Naval Research, Code 441, Navy Dept., Washington 25, D. C. *Acting Head, Physiology Branch.* (**1,** 1950)

Quinby, William C., M.D. Harvard Univ. Med. School, Boston, Mass. *Clin. Prof. of Genitourinary Surgery.* (**1R,** 1916)

Quinn, Edmond John, Ph.D. 106 N. Lee Ave., Rockville Center, Long Island, N. Y. *Medicinal Sales Div., Merck & Co., Inc., Rahway, N. J.* (**2,** 1927; **5,** 1933)

Raab, Wilhelm, M.D. Univ. of Vermont College of Medicine, Div. of Exper. Medicine, Burlington. *Prof.; Head of Division and of Cardiovascular Clin. Research Unit.* (**1,** 1949)

Rabinowitch, I. M., D.Sc., M.D. C.M. 1020 Med. Arts Bldg., Sherbrooke and Guy Sts., Montreal, Quebec, Canada. *Assoc. Prof. of Medicine and Lecturer in Med. Jurisprudence and Toxicology, McGill Univ.; Dir., Inst. for Research, Montreal General Hospital.* (**2,** 1928; **5,** 1933)

Rachele, Julian R., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Assoc. Prof. of Biochemistry.* (**2,** 1948)

Rackemann, Francis M., M.D. 263 Beacon St., Boston, Mass. *Physician, Massachusetts General*

Hospital; Lecturer in Medicine, Harvard Med. School. (**6,** 1923)

Racker, Efraim, M.D. New York Univ. College of Medicine, New York City 16. *Asst. Prof. of Microbiology.* (**2,** 1948)

Raffel, Sidney, Sc.D., M.D. Stanford Univ., Dept. of Bacteriology and Exper. Pathology, Stanford Univ., Calif. *Asst. Prof.* (**6,** 1938)

Rahn, Hermann, Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Asst. Prof. of Physiology.* (**1,** 1944)

Rake, Geoffrey W., M.B. Squibb Inst. for Med. Research, Div. of Microbiology, New Brunswick, N. J. *Head of Div.* (**6,** 1939)

Rakestraw, Norris W., Ph.D. Univ. of California, Scripps Inst. of Oceanography, LaJolla. *Prof. of Chemistry.* (**2,** 1925)

Rakieten, Nathan, Ph.D. Bristol Labs., Inc., P. O. Box 657, Syracuse 2, N. Y. *Pharmacologist and Toxicologist.* (**1,** 1941)

Ralli, Elaine P., M.D. 477 First Ave., New York City. *Assoc. Prof. of Medicine, New York Univ. College of Medicine.* (**1,** 1934; **5,** 1933)

Ralston, H. J., Ph.D. College of Physicians and Surgeons, 344 14th St., San Francisco 3, Calif. *Assoc. Prof. of Physiology.* (**1,** 1947)

Rammelkamp, Charles H., Jr., M.D. Western Reserve Univ., Dept. of Preventive Medicine, Cleveland 6, Ohio. *Assoc. Prof. of Medicine.* (**6,** 1943)

Ramsey, Robert Weberg, Ph.D. Med. College of Virginia, Richmond. *Assoc. Prof. of Physiology and Pharmacology.* (**1,** 1939)

Randall, Lowell O., Ph.D. Hoffmann-LaRoche, Inc., Nutley 10, N. J. *Pharmacologist.* (**2,** 1939; **3,** 1950)

Randall, Walter C., Ph.D. St. Louis Univ. School of Medicine, 1402 S. Grand Blvd., St. Louis, Mo. *Instr. in Physiology.* (**1,** 1943)

Randall, Wil iam A., Ph.D. Food and Drug Admin., Washington 25, D. C. *Bacteriologist, Div. of Penicillin Control and Immunology.* (**6,** 1946)

Rane, Leo, Ph.D. Lederle Labs., Inc., Pearl River, N. Y. *Dept. Head, Normal Blood Plasma.* (**6,** 1942)

Rantz, Lowell A., M.D. Stanford Univ. School of Medicine, San Francisco 15, Calif. *Assoc. Prof. of Medicine.* (**3,** 1946)

Rapoport, Samuel, M.D., Ph.D. Children's Hospital Research Foundation, Elland and Bethesda, Cincinnati, Ohio. *Assoc. Prof. of Pediatrics and Asst. Prof. of Biochemistry, Univ. of Cincinnati.* (**2,** 1941)

Rapport, David, M.D. 136 Harrison Ave., Boston, Mass. *Prof. of Physiology, Tufts College Med. School.* (**1,** 1922)

Rapport, Maurice M., Ph.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Biochemistry, 630 W. 168th St., New York City 32. *Research Assoc.* (**2,** 1950)

Raska, Sigwin, Ph.D. 545 Graceland Ave., Des Plaines, Ill. (**1,** 1947)

Rasmussen, A. F., Ph.D., M.D. Univ. of Wisconsin Med. School, Dept. of Med. Microbiology, Madison. *Assoc. Prof.* (**6,** 1949)

Rasmussen, Andrew Theodore, Ph.D. Univ. of Minnesota Med. School, Minneapolis. *Prof. of Neurology.* (**1,** 1919)

Ratcliffe, Herbert L., D.Sc. Univ. of Pennsylvania, Dept. of Pathology, Philadelphia 4. *Assoc. Prof. of Comparative Pathology; Pathologist, Zoological Society of Philadelphia.* (**4,** 1950)

Ratner, Bret, M.D. 50 E. 78th St., New York City. *Prof. of Pediatrics, New York Univ. College of Medicine.* (**4,** 1940; **6,** 1928)

Ratner, Sarah, Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Asst. Prof. of Pharmacology.* (**2,** 1944)

Raulston, B. O., M.D. 200 S. Hudson Ave., Los Angeles, Calif. *Prof. of Medicine and Dir. of Clin. Teaching and Assoc. Dean, Univ. of Southern California School of Medicine.* (**3,** 1942)

Ravdin, I. S., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *John Rhea Barton Prof. of Surgery; Chief Surgeon, Hospital of the Univ. of Pennsylvania.* (**1,** 1930; **4,** 1930)

Rawson, Rulon W., M.D. Memorial Hospital, New York City. *Attending Physician; Chief, Dept. of Clin. Investigation, Sloan-Kettering Inst.* (**1,** 1947)

Raymond, Albert L., Ph.D. G. D. Searle and Co., P. O. Box 5110, Chicago 80, Ill. *Vice Pres. in charge of Research and Development.* (**2,** 1932)

Rebuck, John W., M.D., Ph.D. Henry Ford Hospital, Dept. of Labs., Detroit 2, Mich. *Assoc. in Pathology.* (**4,** 1950)

Redfield, Alfred C., Ph.D. Woods Hole, Mass. *Prof. of Physiology, Harvard Univ.* (**1,** 1919)

Reed, Carlos I., Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago. *Prof. of Physiology.* (**1,** 1923)

Reed, Emerson A., Ph.D. Hahnemann Med. College, Philadelphia, Pa. *Asst. Prof. of Physiology.* (**1,** 1948)

Reese, John D., M.D. North Carolina Sanatorium for the Treatment of Tuberculosis, McCain. *Pathologist and Lab. Dir.* (**4,** 1949)

Rehm, Warren S., Jr., Ph.D., M.D. Univ. of Louisville School of Medicine, Louisville, Ky. *Prof. of Physiology.* (**1,** 1945)

Reid, Marion Adelaide, Ph.D. New Jersey College for Women, New Brunswick. *Asst. Prof., Dept. of Zoology.* (**1,** 1941)

Reid, Mary E., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Cytologist.* (**5,** 1947)

Reimann, Hobart A., M.D. Jefferson Hospital, Philadelphia, Pa. *Prof. of Medicine, Jefferson Med. College.* (**4,** 1933)

Reimann, Stanley P., M.D., Sc.D. 703 W. Phil-

Ellena St., Mount Airy, Philadelphia, Pa. *Dir. of Research Inst. of Lankenau Hospital; Prof. of Oncology, Hahnemann Med. College and Hospital, Philadelphia.* (**1,** 1921; **4,** 1924)

Reinecke, Roger M., Ph.D., M.D. Univ. of Puerto Rico, School of Medicine, School of Tropical Medicine, San Juan. (**1,** 1947)

Reineke, E. P., Ph.D. Michigan State College, Dept. of Physiology and Pharmacology, East Lansing. *Professor.* (**1,** 1950)

Reiner, John M., Ph.D. Tufts College Med. School, Dept. of Physiology, Boston, Mass. (**1,** 1947)

Reiner, Laszlo, M.D., Ph.D. Wallace and Tiernan Products, Inc., 11 Mill St., Belleville 9, N. J. *Dir., Pharmaceutical Research.* (**2,** 1942; **6,** 1933)

Reinhardt, William O., M.D. Univ. of California, Berkeley 4. *Assoc. Prof. of Anatomy.* (**1,** 1950)

Reinhold, John G., Ph.D. Univ. of Pennsylvania Hospital, 702 Maloney Bldg., Philadelphia 4, Pa. *Asst. Prof. of Physiological Chemistry and Medicine.* (**2,** 1936)

Rekers, Paul E., M.D. Inst. for Med. Research, Cedars of Lebanon Hospital, 4751 Fountain Ave., Los Angeles 27, Calif. *Research Assoc.* (**4,** 1950)

Remington, John W., Ph.D. Med. College of Georgia, Augusta. *Asst. Prof. of Physiology.* (**1,** 1943)

Remington, Roe E., Ph.D., P.O. Box 1252, Hendersonville, N. C. *Consultant.* (**2,** 1930; **5R,** 1934)

Renfrew, Alice G., Ph.D. Mellon Inst. of Industrial Research, Univ. of Pittsburgh, Pittsburgh, Pa. *Sr. Fellow.* (**2,** 1939)

Reynolds, Chapman, M.D. Louisiana State Univ. School of Medicine, New Orleans. *Asst. Prof. of Pharmacology.* (**3,** 1937)

Reynolds, Orr E., Ph.D. Office of Naval Research, Med. Sciences Div., Washington, D. C. *Head of Physiology Branch.* (**1,** 1948)

Reynolds, Samuel R. M., Ph.D., Sc.D. 4028 Deepwood Rd., Baltimore 18, Md. *Staff Member and Physiologist, Carnegie Inst. of Washington, Dept. of Embryology.* (**1,** 1932)

Reznikoff, Paul, M.D. New York Hospital, 525 E. 68th St., New York City. *Prof. of Clin. Medicine, Cornell Univ. Med. College.* (**1,** 1927)

Rhines, Ruth, Ph.D., M.D. Univ. of Pennsylvania School of Medicine, Dept. of Anatomy, Philadelphia 4. *Asst. Prof. of Anatomy; Instr. in Medicine.* (**1,** 1950)

Rhoads, Cornelius Packard, M.D. Memorial Hospital, 444 E. 68th St., New York City. *Dir.; Prof. of Pathology, Cornell Univ. Med. College.* (**4,** 1930)

Rhoads, Jonathan Evans, M.D., D.Sc. Univ. of Pennsylvania School of Medicine, Philadelphia 4. *Prof. of Surgery; Chief, Surgical Div. II, Hospital of the Univ. of Pennsylvania.* (**1,** 1946)

Rice, Christine E., Ph.D. Animal Diseases Research Inst., Canadian Dept. of Agriculture, Hull, Quebec, Canada. *Agricultural Scientist.* (**6,** 1938)

Rice, Harold V., Ph.D. Univ. of Alberta, Edmonton, Alberta, Canada. *Prof. of Physiology.* (**1,** 1948)

Rice, James C., Ph.D. Univ. of Mississippi, P. O. Box 475, University. *Prof. of Pharmacology.* (**3,** 1941)

Rich, Arnold Rice, M.D. Johns Hopkins Hospital, Baltimore, Md. *Baxley Prof. of Pathology, Johns Hopkins Univ.* (**4,** 1924)

Richards, Alfred N., Ph.D., M.D. 737 Rugby Rd., Bryn Mawr, Pa. *Prof. Emeritus of Pharmacology, Univ. of Pennsylvania.* (**1R,** 1900; **2,** 1906; **3R,** 1909)

Richards, Oscar W., Ph.D. American Optical Co., Research Lab., P.O. Box 137, Stamford, Conn. *Chief Biologist.* (**1,** 1934)

Richards, Richard Kohn, M.D. Abbott Labs., North Chicago, Ill. *Assoc. Dir. of Pharmacologic Research; Prof. Lecturer in Pharmacology, Northwestern Univ. Med. School.* (**1,** 1938; **3,** 1947)

Richardson, Arthur P., M.D. Emory Univ. School of Medicine, Emory University, Ga. *Prof. and Chairman of Dept. of Pharmacology.* (**3,** 1939)

Richardson, Luther R., Ph.D. P. O. Box 102, College Station, Tex. *Prof. of Biochemistry and Nutrition, Texas A & M College.* (**5,** 1942)

Richter, Curt P., Ph.D. Phipps Psychiatric Clinic, Johns Hopkins Hospital, Baltimore, Md. *Assoc. Prof. of Psycho-biology, Johns Hopkins Univ.* (**1,** 1924)

Richter, Maurice N., M.D. 303 E. 20th St., New York City. *Prof. of Pathology, Bellevue Med. Center; Dir. Dept. of Pathology, Univ. Hospital.* (**4,** 1931)

Ricketts, Henry T., M.D. Univ. of Chicago, Dept. of Medicine, Chicago, Ill. *Assoc. Prof. of Medicine.* (**1,** 1940)

Riddle, Oscar, Ph.D. Route 4, Plant City, Fla. (**1R,** 1919)

Riegel, Byron, Ph.D. Northwestern Univ., Dept. of Chemistry, Evanston, Ill. *Professor.* (**2,** 1942)

Riegel, Cecilia, Ph.D. Univ. of Pennsylvania Hospital, Philadelphia 4, Pa. *Asst. Prof., Harrison Dept. of Surgical Research. Univ. of Pennsylvania School of Medicine.* (**2,** 1938)

Rigdon, R. H., M.D. Univ. of Texas Med. Branch, Galveston. *Prof. of Exper. Pathology.* (**4,** 1941)

Riggs, Douglas S., M.D. Harvard Med. School, Boston, Mass. *Assoc. in Pharmacology.* (**3,** 1948)

Riggs, Lloyd K., Ph.D. Natl. Dairy Research Labs., Oakdale, L. I., N. Y. *Dir. of Nutritional Research.* (**2,** 1929)

Riker, Walter F., Jr., M.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Assoc. Prof. of Pharmacology.* (**3,** 1947)

Riley, Richard F., Ph.D. P.O. box 31, Beverly Hills, Calif. *Asst. Clin. Prof. of Radiology.* (**3,** 1950)

Riley, Richard L., M.D. 1901 Dixon Rd., Baltimore 9, Md. *Dept. of Environmental Medicine, Johns Hopkins Univ.* (**1,** 1948)

Rinehart, James F., M.D. Univ. of California Med. School, Parnassus and Third Aves., San Francisco. *Prof. of Pathology.* (**4,** 1933)

Ring, Gordon C., Ph.D. Temple Univ. Med. School, Broad St., Philadelphia, Pa. (**1,** 1933)

Rioch, David McKenzie, M.D. Chestnut Lodge Sanitarium, 500 W. Montgomery Ave., Rockville, Md. *Dir. of Research.* (**1,** 1931)

Rittenberg, David, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof.* (**2,** 1939)

Ritzman, E. G., A.M. Univ. of New Hampshire, Durham. *Research Prof.* (**5R,** 1933)

Rivers, T. M., M.D., Sc.D. Hospital of Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Director.* (**4,** 1925; **6,** 1921)

Robb, Jane Sands, Sc.D., M.D. Syracuse Univ. College of Medicine, 761 Irving Ave., Syracuse, N. Y. *Assoc. Prof. of Pharmacology.* (**1,** 1924)

Robbins, Benjamin Howard, M.S., M.D. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Assoc. Prof. of Pharmacology; Prof. of Anesthesiology.* (**3,** 1936)

Robbins, Kenneth C., Ph.D. Inst. of Pathology, 2085 Adelbert Rd., Cleveland, Ohio. *Asst. Prof. of Immunochemistry.* (**6,** 1950)

Robbins, Mary L., Ph.D. George Washington Univ. School of Medicine, 1335 H St., N.W., Washington 5, D. C. *Asst. Prof. of Bacteriology.* (**6,** 1946)

Roberts, Edward F., M.D., Ph.D. Wyeth, Inc., 1600 Arch St., Philadelphia 3, Pa. *Dir. of Clin. Investigation.* (**6,** 1932)

Roberts, Eugene, Ph.D. Washington Univ. Med. School, 4580 Scott Ave., St. Louis 10, Mo. *Research Assoc. in Cancer.* (**2,** 1950)

Roberts, Joseph T., M.D., Ph.D. Veterans Admin. Hospital, Batavia, N. Y. *Chief of Med. Service.* (**1,** 1947)

Roberts, Lydia J., Ph.D. Univ. of Puerto Rico, Rio Piedras, P. R. *Prof. and Chairman of Dept. of Home Economics.* (**5,** 1933)

Roberts, Sidney, Ph.D. Univ. of California Med. School, Los Angeles. *Asst. Prof. of Physiological Chemistry.* (**1,** 1946; **2,** 1950)

Robertson, Elizabeth Chant, M.D., Ph.D. Univ. of Toronto, Toronto, Ontario, Canada. *Research Fellow in Pediatrics.* (**5,** 1939)

Robertson, Oswald H., M.D. Stanford Univ., Dept. of Biology, Palo Alto, Calif. *Prof. of Medicine.* (**4R,** 1932)

Robinson, Charles Summers, Ph.D. Vanderbilt Univ. Med. School, Nashville, Tenn. *Prof. of Biochemistry.* (**2,** 1925)

Robinson, Elliott S., M.D., Ph.D. R.F.D. 4, Laconia, N. H. (**6,** 1935)

Robinson, G. Canby, M.D., 4712 Keswick Rd., Baltimore, Md. *Exec. Sec., Maryland Tuberculosis Assoc.* (**1R,** 1912)

Robinson, Harry J., Ph.D., M.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Asst. Dir.* (**3,** 1946)

Robinson, Herbert E., Ph.D. Swift and Co., Research Labs., Union Stock Yards, Chicago 9, Ill. *Asst. Dir. of Research.* (**5,** 1947)

Robinson, Howard W., Ph.D. Broad and Ontario Sts., Philadelphia, Pa. *Prof. of Physiological Chemistry, Temple Univ. School of Medicine.* (**2,** 1929)

Robinson, Sid, Ph.D. Indiana Univ. Med. School, Bloomington. *Prof. of Physiology.* (**1,** 1941)

Robinson, True W., Ph.D. Med. College of Alabama, Birmingham 5. (**1,** 1948)

Roblin, Richard O., Jr., Ph.D. 1937 W. Main St., Stamford, Conn. *Dir. of Chemotherapy Div., American Cyanamid Co.* (**2,** 1946)

Robscheit-Robbins, F.S., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Assoc. in Pathology.* (**1,** 1925; **4,** 1930)

Rodbard, Simon, Ph.D. Michael Reese Hospital, Cardiovascular Dept., 29th and Ellis Aves., Chicago, Ill. (**1,** 1942)

Roe, Joseph Hyram, Ph.D. George Washington Univ. School of Medicine, Washington, D. C. *Prof. of Biochemistry.* (**2,** 1927; **5,** 1933)

Roeder, Kenneth D., M.A. Tufts College, Medford, Mass. *Assoc. Prof. of Biology.* (**1,** 1942)

Roepke, Martin Henry, Ph.D. Univ. Farm, St. Paul, Minn. *Prof. of Veterinary Medicine.* (**3,** 1937)

Rogers, Charles G., Ph.D. Oberlin College, Oberlin, Ohio. *Prof. of Comparative Physiology.* (**1R,** 1911)

Rogers, Fred T., Ph.D., M.D. Dallas Med. and Surgical Clinic, 4105 Live Oak St., Dallas 1, Tex. (**1,** 1917)

Rogoff, Julius M., M.D., Sc.D. Belle Island, Rowayton, Conn. (**1,** 1916; **3,** 1916)

Roine, Paavo K., Ph.D. Univ. of Helsinki, Helsinki, Finland. *Prof. of Nutritional Chemistry.* (**5,** 1950)

Rolfe, Daniel Thomas, M.D. Meharry Med. College, Nashville 8, Tenn. *Chairman, Dept. of Physiology and Pharmacology; Prof. of Physiology.* (**1,** 1950)

Roll, Paul M., Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 E. 68th St., New York City 21. *Assoc. Member.* (**2,** 1950)

Ronzoni, Ethel, Ph.D. Washington Univ. Med. School, 640 S. Kingshighway, St. Louis 10, Mo. *Asst. Prof. of Biological Chemistry, Neuropsychiatry Dept.* (**2,** 1923)

Roos, Albert, M.D. Washington Univ. School of Medicine, Dept. of Physiology, Euclid Ave. and Kingshighway, St. Louis 10, Mo. *Instr. in Physiology and Surgery.* (**1,** 1949)

Root, Howard F., M.D. 44 Dwight St., Brookline, Mass. *Assoc. in Medicine, Harvard Med. School.* (**5,** 1933)

Root, Raymond W., Ph.D. College of the City of New York, 139th St. and Convent Ave., New York City. *Assoc. Prof. of Biology; Head of Div. of Physiology.* (**1,** 1949)

Root, Walter S., Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Physiology.* (**1,** 1932)

Rosahn, Paul D., M.D. 92 Grand St., New Britain, Conn. *Pathologist, New Britain General Hospital; Assoc. Clin. Prof. of Pathology, Yale Univ. School of Medicine.* (**4,** 1934)

Rose, Harry M., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Bacteriology.* (**6,** 1949)

Rose, Jerzy E., M.D. Johns Hopkins Univ. Med. School, Dept. of Physiology, 710 N. Washington St., Baltimore 5, Md. *Asst. Prof. of Physiology and Psychiatry.* (**1,** 1949)

Rose, William C., Ph.D. Univ. of Illinois, Urbana. *Prof. of Biochemistry.* (**2,** 1912; **5,** 1933)

Rosenblueth, Arturo, M.D. Instituto Nacional de Cardiologia, Calzada de la Piedad 300, Mexico D.F., Mexico. (**1,** 1932)

Rosenfeld, Morris, M.D. Johns Hopkins School of Medicine, Baltimore, Md. *Assoc. Prof. of Pharmacology and Exper. Therapeutics.* (**3,** 1934)

Rosenow, Edward C., M.D. Longview State Hospital, Research Dept., Cincinnati 16, Ohio. (**4,** 1913; **6,** 1915)

Rosenthal, Otto, M.D. Univ. of Pennsylvania School of Medicine, Philadelphia, Pa. *Asst. Prof. of Cancer Research, Harrison Dept. of Surgical Research.* (**2,** 1946)

Rosenthal, Sanford M., M.D. Natl. Insts. of Health, Bethesda, Md. *Chief, Section in Pharmacology and Toxicology, Exper. Biology Inst.* (**3,** 1925)

Rosenthal, S. R., M.D., Ph.D. Univ. of Illinois College of Medicine, Chicago. *Assoc. Prof. of Preventive Medicine and Public Health; Dir., Institution for Tuberculosis Research of Univ. of Illinois.* (**1,** 1948; **4,** 1941)

Ross, Joseph F., M.D. Robert Dawson Evans Memorial, 65 E. Newton St., Boston, Mass. *Physician, Massachusetts Memorial Hospital; Assoc. Prof. of Medicine, Boston Univ. School of Medicine.* (**4,** 1941)

Rossiter, R. J., Ph.D. Univ. of Western Ontario, London, Ontario, Canada. *Prof. of Biochemistry.* (**2,** 1948)

Rostorfer, Howard Hayes, Ph.D. Indiana Univ., Bloomington. *Asst. Prof. of Physiology.* (**1,** 1946)

Roth, George B., M.D. 3814 T St. N.W., Washington. D. C. *Prof. Emeritus of Pharmacology, George Washington Univ.* (**1R,** 1914; **3R,** 1911)

Roth, Grace M., Ph.D. Mayo Clinic, Rochester, Minn. *Assoc. in Clin. Physiology.* (**1,** 1939)

Roth, James Luther d'Aumont, M.D., Ph.D. Univ. of Pennsylvania Grad. Hospital, 19th and Lombard Sts., Philadelphia 46. *Research Fellow in Gastroenterology, Grad. School of Medicine, Univ. of Pennsylvania.* (**1,** 1950)

Roth, L. W., Ph.D. Abbott Research Labs., Dept. of Pharmacology, North Chicago, Ill. *Sr. Research Pharmacologist.* (**1,** 1947; **3,** 1950)

Rothchild, Irving, Ph.D. Ohio State Univ., Dept. of Obstetrics and Gynecology, Univ. Hospital, Columbus, Ohio. (**1,** 1949)

Rothemund, Paul W. K., Dr.-Ing. Antioch College, Yellow Springs, Ohio. *Prof. of Chemistry; Research Chemist, C. F. Kettering Foundation.* (**2,** 1940)

Rothstein, A., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 7, N. Y. *Asst. Prof. in Pharmacology; Chief of Physiological Section, Pharmacological Div., Atomic Energy Project.* (**1,** 1949)

Rous, Peyton, M.D., Sc.D. Rockefeller Inst. for Med. Research, York Ave. at 66th St., New York City. *Member Emeritus.* (**4,** 1913)

Routh, Joseph I., Ph.D. State Univ. of Iowa, Iowa City. *Assoc. Prof. of Biochemistry.* (**2,** 1942)

Rovenstine, Emery Andrew, M.D. 477 First Ave., New York City. *Prof. and Chairman, Dept. of Anesthesiology, New York Univ.-Bellevue Med. Center.* (**3,** 1944)

Rowntree, Jennie I., Ph.D. Univ. of Washington, Seattle. *Prof. of Home Economics.* (**5,** 1933)

Rowntree, L. G., M.D., Sc.D. 5149 Alton Rd., Miami Beach, Fla. (**1R,** 1911; **2,** 1910; **3R,** 1908; **4,** prior to 1920)

Rubenstein, Boris B., Ph.D., M.D. 5121 Ellis Ave., Chicago 15, Ill. (**1,** 1934)

Rubin, Saul H., Ph.D. Hoffmann-LaRoche, Inc., Nutley 10, N. J. *Dir. of Nutrition Labs.* (**2,** 1947; **5,** 1947)

Ruch, Theodore C., Ph.D. Univ. of Washington, G405 Health Sciences Bldg., Seattle 5. *Prof. of Physiology and Biophysics.* (**1,** 1933)

Ruchman, Isaac, Ph.D. Cincinnati General Hospital, Cincinnati, Ohio. *Asst. Prof. of Bacteriology.* (**6,** 1948)

Rugh, Roberts, Ph.D. Columbia Univ., College of Physicians and Surgeons, Dept. of Radiology, New York City 32. *Assoc. Prof. of Radiology.* (**1,** 1950)

Rusch, Harold Paul, M.D. Univ. of Wisconsin Med. School, McArdle Memorial Lab., Madison 6. *Prof. of Oncology, Dir. of Lab.* (**4,** 1940)

Rushmer, Robert F., M.D. Univ. of Washington School of Medicine, Dept. of Physiology and Biophysics, Seattle 5. *Asst. Prof.* (**1,** 1949)

Rusoff, Louis L., Ph.D. Louisiana State Univ., Baton Rouge. *Assoc. Dairy Nutritionist in Exper. Station and Assoc. Prof. of Nutrition.* (**5,** 1948)

Russell, Jane A., Ph.D. Emory Univ. School of Medicine, Dept. of Biochemistry, Emory Univ., Ga. (**1,** 1939)

Russell, Walter C., Ph.D. New Jersey Agricultural Exper. Station, Rutgers Univ., New Brunswick. *Research Specialist and Prof. of Agricultural Biochemistry.* (**2,** 1932; **5,** 1933)

Ryan, Andrew Howard, M.D. Chicago Med. School, 710 S. Wolcott Ave., Chicago, Ill. *Assoc. Prof. of Physiology and Pharmacology.* (**1,** 1912)

Rytand, David A., M.D. Stanford Univ. Hospital, San Francisco 15, Calif. *Assoc. Prof. of Medicine, Stanford Univ. School of Medicine.* (**3,** 1946)

Sabin, Albert, M.D. Children's Hospital Research Foundation, Cincinnati, Ohio. *Prof. of Research Pediatrics, Univ. of Cincinnati.* (**6,** 1946)

Sabin, Florence R., M.D., Sc.D. 1333 E. 10th Ave., Denver 3, Colo. *Member Emeritus, Rockefeller Inst.* (**1R,** 1923)

Sacks, Ernest, M.D. 28 Malborough Rd., North Haven, Conn. *Prof. Emeritus of Clin. Neurological Surgery, Washington Univ. Med. School.* (**1R,** 1910)

Sacks, Jacob, Ph.D., M.D. Brookhaven Natl. Lab., Biology Dept., Upton, L. I., N. Y. *Physiologist.* (**1,** 1948; **3,** 1933)

Sah, Peter P. T., Ph.D. Univ. of Calif., Div. of Pharmacology and Exper. Therapeutics, San Francisco. *Lecturer in Pharmacology.* (**3,** 1941)

Sahyun, Melville, Ph.D. Sahyun Research Lab., 316 Castillo St., Santa Barbara, Calif. *Dir. and Owner.* (**2,** 1932)

Sakami, Warwick, Ph.D. Western Reserve Univ. School of Medicine, 2109 Adelbert Rd., Cleveland 6, Ohio. *Asst. Prof. of Biochemistry.* (**2,** 1949)

Salk, Jonas E., M.D. Univ. of Pittsburgh School of Medicine, Pittsburgh, Pa. *Assoc. Research Prof. of Bacteriology.* (**6,** 1947)

Salmon, W. D., A.M. Alabama Polytechnic Inst., Auburn. *Head, Animal Husbandry and Nutrition.* (**2,** 1929; **5,** 1933)

Salter, William T., M.D. Yale Univ. School of Medicine, 333 Cedar St., New Haven, Conn. *Prof. of Pharmacology.* (**1,** 1933; **3,** 1942; **5,** 1934)

Sammis, Florence E., M.D. 133 E. 58th St., New York City. *Physician, Allergy, OPD, New York Hospital.* (**6,** 1943)

Sampson, John J., M.D. 2211 Post St., San Francisco, Calif. (**1,** 1932)

Sampson, Myra M., Ph.D. Smith College, Northampton, Mass. *Prof. of Zoology.* (**5,** 1935)

Samuels, Leo T., Ph.D. Univ. of Utah Med. School, Salt Lake City. *Prof. and Head of Dept. of Biological Chemistry.* (**2,** 1941; **3,** 1937; **5,** 1949)

Sandels, Margaret R., Ph.D. Florida State Univ., Tallahassee. *Dean of School of Home Economics; Prof. of Nutrition.* (**5,** 1933)

Sandiford, Irene, Ph.D. Billings Hospital, Univ. of Chicago, Chicago, Ill. *Asst. Prof. of Medicine.* (**2,** 1925; **5,** 1933)

Sandow, Alexander, Ph.D. Washington Square College of Arts and Sciences, New York Univ., New York City. *Assoc. Prof. of Biology.* (**1,** 1945)

Sandweiss, David J., M.D. 9739 Dexter Ave., Detroit, Mich. *Instr. in Clin. Medicine, Wayne Univ. College of Medicine; Physician, Harper Hospital (OPD).* (**1,** 1944)

Sanford, Arthur H., M.A., M.D. Clin. Labs., Mayo Clinic, Rochester, Minn. *Head of Div. of Clin. Labs.* (**6R,** 1920)

Santos, Francisco O., Ph.D. Univ. of the Philippines, Los Banos, Laguna. *Prof. and Head of Dept. of Agricultural Chemistry, College of Agriculture.* (**5,** 1936)

Saphir, Otto, M.D. Michael Reese Hospital, 29th St. and Ellis Ave., Chicago 16, Ill. *Pathologist; Clin. Prof. of Pathology, Univ. of Illinois Med. School.* (**4,** 1927)

Saphra, Ivan, M.D. Beth Israel Hospital, New York City. *Assoc. Bacteriologist.* (**6,** 1946)

Sapirstein, Leo Abraham, Ph.D., M.D. Univ. of Southern California, Univ. Park, Los Angeles 7. *Asst. Prof. of Physiology; S. A. Surgeon (R) USPHS.* (**1,** 1950)

Sappington, Samuel W., M.D., D.Sc. P. O. Box 528, Bryn Mawr, Pa. *Prof. of Pathology, Hahnemann Hospital.* (**6R,** 1913)

Sarett, Herbert P., Ph.D. Tulane Med. School, 1430 Tulane Ave., New Orleans 13, La. *Asst. Prof. of Biochemistry.* (**2,** 1946; **5,** 1947)

Sarnoff, Stanley J., M.D. Harvard School of Public Health, 55 Shattuck St., Boston 15, Mass. *Asst. Prof. of Physiology.* (**1,** 1949)

Sartorius, Otto W., M.D. Syracuse Univ., College of Medicine, Irving Ave., Syracuse, N. Y. *Asst. Prof. of Physiology.* (**1,** 1950)

Saslaw, Samuel, Ph.D., M.D. Ohio State Univ., Columbus 10. *Asst. Prof. in Medicine and Bacteriology.* (**6,** 1950)

Saslow, George, Ph.D., M.D. Washington Univ. Med. School, Dept. of Neuropsychiatry, 640 S. Kingshighway, St. Louis, Mo. *Asst. Prof. of Psychiatry; Assoc. Physician to the Student Health Service.* (**1,** 1936)

Satterfield, G. Howard, A.M. Univ. of North

Carolina, State College of Agriculture and Engineering, Raleigh. *Prof. of Biochemistry.* (**2,** 1944; **5,** 1941)

Saul, Leon Joseph, M.A., M.D. Room 1907, 255 S. 17th St., Philadelphia 3, Pa. (**1,** 1933)

Sawyer, Charles H., Ph.D. Duke Univ. School of Medicine, Durham, N. C. *Prof. of Anatomy.* (**1,** 1949)

Sawyer, Margaret E. MacKay, Ph.D. 142 Lower Albert St., Kingston, Ontario, Canada. *Royal Military College.* (**1,** 1935)

Sawyer, Wilbur A., M.D. 770 Hilldale Ave., Berkeley 8, Calif. (**4,** 1930)

Saxton, John A., Jr., M.D. Snodgrass Lab. of Pathology and Bacteriology, 1430 Carroll St., St. Louis, Mo. *Asst. Prof. of Pathology, Washington Univ. School of Medicine; Lab. Dir., Hospital Div., City of St. Louis.* (**4,** 1944)

Sayers, George, Ph.D. Univ. of Utah, Salt Lake City 1. *Assoc. Prof. of Pharmacology.* (**1,** 1948; **3,** 1947)

Scamman, Richard E., Ph.D. 172 S. E. Bedford St., Minneapolis, Minn. *Distinguished Service Prof. in Grad. School.* (**1R,** 1923)

Scantlebury, Ronald E., Ph.D. Natl. Insts. of Health, Div. of Research Grants and Fellowships, Bethesda 14, Md. (**1,** 1948)

Schaefer, Arnold E., Ph.D. Alabama Polytechnic Inst. Lab. of Animal Nutrition, Auburn. *Assoc. Animal Nutritionist.* (**5,** 1950)

Schales, Otto, D.Sc. Ochsner Clinic, Prytania and Aline Sts., New Orleans, La. *Dir. of Chemical Research, Ochsner Foundation; Dir., Biochemical Lab., Ochsner Clinic; Assoc. Prof. of Biochemistry, Tulane Univ. School of Medicine.* (**2,** 1944)

Scharles, Frederick H., M.D. 603 El Morado Ct., Ontario, Calif. (**5,** 1935)

Schattenberg, Herbert John, M.S., M.D. Lab. of Clin. Pathology, 220–222 Med. Arts Bldg., San Antonio, Tex. *Director.* (**4,** 1940)

Schenken, John R., M.D. Univ. of Nebraska College of Medicine, Omaha. *Prof. of Pathology and Bacteriology.* (**4,** 1942)

Scherago, Morris, D.V.M. Univ. of Kentucky, Lexington. *Prof. and Head of Dept. of Bacteriology.* (**6,** 1948)

Scherp, Henry W., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 7, N. Y. *Assoc. Prof. of Bacteriology and Immunology.* (**6,** 1940)

Schick, Bela, M.D. 17 E. 84th St., New York City. *Pediatrician, Mt. Sinai and Sea View Hospitals.* (**6,** 1924)

Schiffrin, Milton J., Ph.D. Hoffmann-LaRoche, Inc., Chicago, Ill. *Research Consultant.* (**1,** 1943)

Schiller, Alfred A., M.D. Univ. of Illinois College of Medicine, Chicago. *Asst. Prof. of Physiology.* (**1,** 1948)

Schiller, Joseph, M.D., Ph.D. 55 West 11th St., New York City 11. *Assoc. Prof. of Physiology, Long Island Univ.* (**1,** 1949)

Schlenk, Fritz, Ph.D. Science Hall, Iowa State College, Ames. *Prof. of Bacteriology.* (**2,** 1942)

Schlesinger, M. J., Ph.D., M.D. Beth Israel Hospital, 330 Brookline Ave., Boston, Mass. *Dir. of Pathology; Asst. Prof. of Pathology, Harvard Med. School.* (**4,** 1942; **6,** 1921)

Schlomovitz, Benjamin H., M.D. 1210 Majestic Bldg., 231 W. Wisconsin Ave., Milwaukee, Wis. (**1,** 1919)

Schlumberger, Hans G., M.D. Ohio State Univ. School of Medicine, Columbus. *Assoc. Prof. in Pathology.* (**4,** 1945)

Schmeisser, Harry C., M.D. Univ. of Tennessee, Memphis. *Prof. of Pathology.* (**4,** 1937)

Schmidt, Carl F., M.D. Univ. of Pennsylvania Med. School, Philadelphia. *Prof. of Pharmacology.* (**1,** 1929; **3,** 1924)

Schmidt, C. Robert, Ph.D., M.D. 1027 S. Tejon, Colorado Springs, Colo. (**1,** 1940)

Schmidt, Gerhard, M.D. Boston Dispensary, 25 Bennett St., Boston, Mass. *Sr. Research Fellow, Tufts College Med. School.* (**2,** 1939)

Schmidt, L. H., Ph.D. Christ Hospital Inst. of Med. Research, 2139 Auburn Ave., Cincinnati 19, Ohio. *Dir. of Research; Assoc. Research Prof. of Biochemistry, Univ. of Cincinnati College of Medicine.* (**2,** 1936; **3,** 1946)

Schmidt-Nielsen, Bodil, D.D.S. Kettering Lab., Univ. of Cincinnati, Cincinnati, Ohio. *Research Assoc.* (**1,** 1949)

Schmidt-Nielsen, Knut, Ph.D. Kettering Lab., Univ. of Cincinnati, Cincinnati, Ohio. *Asst. Prof.* (**1,** 1949)

Schmitt, Francis Otto, Ph.D. Massachusetts Inst. of Technology, Cambridge. *Prof. of Biology.* (**1,** 1930)

Schmitt, Otto H., Ph.D. Univ. of Minnesota, Dept. of Physics, Minneapolis 14. *Assoc. Prof. of Zoology and Physics.* (**1,** 1947)

Schneider, Charles L., M.D., Ph.D. Wayne Univ. College of Medicine, Dept. of Physiology, Detroit 26, Mich. (**1,** 1949)

Schneider, Edward C., Ph.D. 25 Gordon Place, Middletown, Conn. *Prof. Emeritus of Biology, Wesleyan Univ.* (**1R,** 1912; **2,** 1912)

Schneider, Howard A., Ph.D. Rockefeller Inst. for Med. Research, 66th Street and York Avenue, New York City 21. *Associate.* (**5,** 1947)

Schneider, John J., Ph.D., M.D. Jefferson Med. College, 1025 Walnut St., Philadelphia 7, Pa. *Research Assoc., Exper. Medicine.* (**2,** 1950)

Schneierson, S. Stanley, M.D. Mount Sinai Hospital, 2 East 100th St., New York City 29. *Assoc. Bacteriologist.* (**6,** 1946)

Schoenbach, Emanuel B., M.D. Johns Hopkins School of Hygiene, 615 N. Wolfe St., Baltimore,

Md. *Assoc. Prof. of Preventive Medicine.* (**6,** 1941)

Schoepfle, Gordon M., Ph.D. Washington Univ. School of Medicine, St. Louis, Mo. *Asst. Prof. of Physiology.* (**1,** 1943)

Scholander, P. F., M.D., Ph.D. Swarthmore College, Dept. of Zoology, Swarthmore, Pa. *Research Biologist.* (**1,** 1947)

Schradieck, Constant E., M.D. P.O. Box 98, Newton Highlands, Mass. *Retired.* (**6,** 1921)

Schreiner, Oswald, Ph.D. 21 Primrose St., Chevy Chase 15, Md. *Collaborator, U.S.D.A.* (**2,** 1908)

Schroeder, E. F., Ph.D. G. D. Searle & Co., P. O. Box 5110, Chicago 80, Ill. *Research Biochemist.* (**2,** 1938)

Schroeder, Henry A., M.D. Dept. of Internal Medicine, Hypertension Div., Washington Univ., 640 S. Kingshighway, St. Louis 10, Mo. (**1,** 1947)

Schubert, Maxwell, Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City 10. *Adjunct Assoc. Prof. of Chemistry.* (**3,** 1947)

Schuck, Cecelia, Ph.D. Purdue Univ., Dept. of Home Economics, Lafayette, Ind. *Prof. of Nutrition.* (**5,** 1941)

Schueler, Fred W., Ph.D. State Univ. of Iowa College of Medicine, Dept. of Pharmacology, Iowa City. *Asst. Prof.* (**3,** 1949)

Schultz, Edwin William, M.D. Stanford Univ., 743 Cooksey Lane, Stanford, Calif. *Prof. of Bacteriology and Exper. Pathology.* (**4,** 1927; **6,** 1928)

Schultz, Fred H., Jr., Ph.D. Commercial Solvents Corp., Terre Haute, Ind. *Dir., Pharmaceutical Research.* (**3,** 1948)

Schultz, W. H., Ph.D. 241 W. Broadway, Long Beach, N. Y. *Prof. Emeritus of Pharmacology, Univ. of Maryland.* (**1R,** 1907; **3R,** 1909)

Schultze, Max O., Ph.D. Univ. of Minnesota, Div. of Agricultural Biochemistry, St. Paul 8. *Professor.* (**2,** 1938)

Schweigert, B. S., Ph.D. Univ. of Chicago, American Meat Inst. Foundation, 939 E. 57th St., Chicago 37, Ill. *Asst. Prof. of Biochemistry; Head, Div. of Biochemistry and Nutrition, American Meat Inst. Foundation.* (**2,** 1949; **5,** 1950)

Schweizer, Malvina, Ph.D. New York Univ., Washington Square College of Arts and Sciences, New York City. *Asst. Prof. of Biology.* (**1,** 1944)

Schwerma, Henry, Ph.D. 107 Upper Terr., San Francisco 17, Calif. (**1,** 1948)

Schwert, George W., Ph.D. Duke Univ. School of Medicine, Dept. of Biochemistry, Durham, N. C. *Asst. Prof.* (**2,** 1949)

Schwimmer, Sigmund, Ph.D. Enzyme Research Lab., 800 Buchanan St., Albany 6, Calif. *Chemist, U. S. Bureau of Agricultural and Industrial Chemistry.* (**2,** 1947)

Scott, Charles Covert, Ph.D., M.D. Inlow Clinic, Shelbyville, Ind. *Internist.* (**3,** 1945)

Scott, David Alymer, Ph.D. Connaught Labs., Univ. of Toronto, Toronto 5, Ontario, Canada. *Research Member.* (**2,** 1935)

Scott, Donald, Jr., Ph.D. Univ. of Pennsylvania Med. School, 243 Anatomy Bldg., Philadelphia 4. *Asst. Prof., Dept. of Anatomy; Assoc., Dept. of Neurology.* (**1,** 1950)

Scott, Ernest L., Ph.D. 64 South St., Bogota, N. J. *Assoc. Prof. Emeritus of Physiology, Columbia Univ.* (**1R,** 1914; **2,** 1915)

Scott, Frederick Hughes, Ph.D., M.B. Univ. of Minnesota, Minneapolis. *Prof. Emeritus of Physiology.* (**1R,** 1908; **2,** 1909)

Scott, James K., M.D. Univ. of Rochester School of Medicine and Dentistry, Atomic Energy Project, Rochester 7, N. Y. *Chief, Pathology Section, AEC; Assoc. in Pathology.* (**4,** 1949)

Scott, John C., Ph.D. Hahnemann Med. College, Philadelphia, Pa. *Prof. and Head of Dept. of Physiology.* (**1,** 1936)

Scott, R. W., M.A., M.D. City Hospital, Cleveland, Ohio. *Physician in Chief; Prof. of Clin. Medicine, Western Reserve Univ.* (**1,** 1917; **3,** 1917)

Scott, V. Brown, Ph.D., M.D. Inlow Clinic, Shelbyville, Ind. *Internist, Div. of Medicine.* (**1,** 1941)

Scott, W. W., Ph.D., M.D. Brady Urological Inst., Johns Hopkins Hospital, Baltimore 5, Md. (**1,** 1943)

Scrimshaw, Nevin S., Ph.D., M.D. Instituto de Nutricion de Centro America y Panama, Guatemala City, Guatemala, Central America. *Dir. of Div. of Nutrition, Pan American Sanitary Bureau.* (**5,** 1949)

Scudi, John V., Ph.D. Nepera Chemical Co., Inc., Nepera Park, Yonkers 2, N. Y. *Dir. of Research.* (**2,** 1942; **3,** 1950; **5,** 1945)

Seager, Lloyd D., M.S., M.D. Univ. of Arkansas Med. School, Little Rock. *Prof. and Head, Dept. of Physiology and Pharmacology.* (**3,** 1939)

Sealock, Robert R., Ph.D. Iowa State College, Ames. *Assoc. Prof. of Chemistry.* (**2,** 1940; **5,** 1941)

Seastone, C. V., Jr., M.D. Univ. of Wisconsin Med. School, Madison. *Prof. and Chairman of Med. Bacteriology.* (**6,** 1939)

Sebrell, W. H., Jr., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Dir., Natl. Insts. of Health; Professorial Lecturer on Nutrition, George Washington Univ.* (**2,** 1938; **5,** 1937)

Seecof, David P., M.D. 1970 Daly Ave., Bronx, New York City. (**4,** 1927)

Seegal, Beatrice Carrie, M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Bacteriology.* (**6,** 1949)

Seegal, David, M.D. Maimonides Hospital, Brooklyn, N. Y. *Dir. of Med. Services.* (**6,** 1930)

Seegers, Walter H., Ph.D. Wayne Univ. College of Medicine, 1512 St. Antoine St., Detroit 26, Mich. *Prof. of Physiology.* (**1,** 1947; **2,** 1941)

Seevers, Maurice Harrison, Ph.D., M.D. Univ. of Michigan, Ann Arbor. *Prof. of Pharmacology.* (**1,** 1933; **3,** 1930)

Segaloff, Albert, M.D. Alton Ochsner Med. Foundation, 3503 Prytania St., New Orleans, La. *Dir. of Endocrine Research.* (**4,** 1946)

Seibert, Florence B., Ph.D. Univ. of Pennsylvania, Henry Phipps Inst., 7th and Lombard Sts., Philadelphia. *Assoc. Prof. of Biochemistry.* **2,** 1925)

Seidell, Atherton, Ph.D. 2301 Connecticut Ave., Washington, D. C. *Special Expert, Natl. Insts. of Health.* (**2,** 1924)

Seifter, Joseph, M.D. Wyeth Inst. of Applied Biochemistry, Philadelphia, Pa. *Director.* (**3,** 1940)

Seifter, Sam, Ph.D. New York State Univ. Med. Center at New York City, 350 Henry St., Brooklyn 2, N. Y. *Assoc. Prof. of Biochemistry.* (**2,** 1946)

Selkurt, Ewald E., Ph.D. Western Reserve Univ. School of Medicine, Cleveland 6, Ohio. *Assoc. Prof. of Physiology.* (**1,** 1945)

Selle, Wilber Arthur, Ph.D. Univ. of California at Los Angeles Med. School, Los Angeles. *Prof. and Head, Dept. of Biophysics.* (**1,** 1938)

Sellers, E. A., M.D.; Ph.D. Univ. of Toronto, Dept. of Physiology, Toronto, Ontario, Canada. *Assoc. Prof. of Physiology; Assoc. Prof. in Banting and Best Dept. of Med. Research.* (**1,** 1947)

Selye, Hans, M.D., Ph.D. Inst. of Exper. Medicine and Surgery, Univ. of Montreal, Montreal, Quebec, Canada. *Prof. and Dir.* (**1,** 1934)

Sendroy, Julius, Jr., Ph.D. Naval Med. Research Inst., Natl. Naval Med. Center, Bethesda 14, Md. *Chief Chemist.* (**2,** 1928)

Sevag, M. G., Ph.D. Univ. of Pennsylvania School of Medicine, Dept. of Bacteriology, Philadelphia 4. *Assoc. Prof. of Bacteriology.* (**2,** 1949; **6,** 1941)

Sevringhaus, Elmer L., M.A., M.D. Hoffmann-La Roche, Inc., Nutley 10, N. J. *Dir. of Clin. Research; Clin. Prof. of Medicine, New York Med. College.* (**2,** 1923; **5,** 1939)

Shaffer, C. Boyd, Ph.D. Mellon Inst., Pittsburgh 13, Pa. *Sr. Fellow.* (**3,** 1950)

Shaffer, Morris F., Ph.D. Tulane Univ. School of Medicine, Dept. of Bacteriology, New Orleans, La. *Professor.* (**4,** 1939; **6,** 1937)

Shaffer, Philip A., Ph.D. Washington Univ. Med. School, St. Louis 10, Mo. *Distinguished Service Prof. of Biological Chemistry.* (**2,** 1906)

Shanes, Abraham M., Ph.D. Natl. Insts. of Health, Exper. Biology and Medicine Inst., Bethesda 14, Md. (**1,** 1946)

Shank, Robert E., M.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Prof. of Preventive Medicine.* (**2,** 1947)

Shannon, James A., Ph.D., M.D. Squibb Inst. for Med. Research, New Brunswick, N. J. *Director.* (**1,** 1933; **3,** 1945)

Shapiro, Herbert, Ph.D. Henry Phipps Inst., 7th and Lombard Sts., Philadelphia 47, Pa. *Research Assoc.* (**1,** 1937)

Sharpless, George R., Sc.D. Lederle Labs., Pearl River, N. Y. *Research Biochemist.* (**5,** 1942)

Shaw, J. C., Ph.D. Univ. of Maryland, Dept. of Dairy Husbandry, College Park, Md. *Professor.* (**1,** 1947)

Shaw, James H., Ph.D. Harvard School of Dental Medicine, Boston, Mass. *Assoc. in Nutrition.* (**5,** 1948)

Shaw, Myrtle, Ph.D. 11 S. Lake Ave., Albany, N. Y. *Sr. Bacteriologist, Div. of Labs. and Research, N. Y. State Dept. of Health.* (**6,** 1937)

Shay, Harry, M.D. Temple Univ. School of Medicine, Philadelphia, Pa. *Dir. of Fels Research Inst. and Clin. Prof. of Medicine.* (**1,** 1944)

Shear, M. J., Ph.D. Natl. Cancer Inst., Bethesda, 14, Md. *Chief of Chemotherapy Section.* (**2,** 1930)

Sheard, Charles, Ph.D. Mayo Foundation, Rochester, Minn. *Chief of Div. of Physics and Biophysical Research; Prof. of Physiological Optics and Biophysics, Univ. of Minnesota.* (**1,** 1925)

Sheehan, Donal, M.D., D.Sc. New York Univ., Bellevue Med. Center, 477 First Ave., New York City. (**1,** 1938)

Shelesnyak, M. C., Ph.D. Weizmann Inst. of Science, Dept. of Exper. Biology, Rehovoth, Israel. *Sr. Scientist.* (**1,** 1948)

Shelley, Walter B., Ph.D., M.D. 353 Inwood Rd., Ardmore, Pa. (**1,** 1946)

Shemin, David, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Biochemistry.* (**2,** 1944)

Sheppard, C. W., Ph.D. Oak Ridge Natl. Lab., Biology Div., Oak Ridge, Tenn. *Physicist.* (**1,** 1950)

Sheppard, Fay, M.S. Univ. of Oklahoma Med. School, Oklahoma City. *Instr. in Biochemistry.* (**2,** 1936)

Sherman, F. G., Ph.D. Brown Univ., Dept. of Biology, Providence 12, R. I. *Asst. Prof.* (**1,** 1950)

Sherman, Henry C., Ph.D. Columbia Univ., New York City. *Mitchell Prof. Emeritus of Chemistry.* (**1R,** 1923; **2,** 1906; **5R,** 1933)

Sherman, William C., Ph.D. Ralston Purina Co., St. Louis, Mo. *Head of Biological Labs.* (**5,** 1949)

Sherwin, Carl Paxson, Sc.D., M.D., Dr. P.H. 6 Carstensen Rd., Scarsdale, N. Y. *Dir. of Meta-*

bolic Service, St. Vincent's Hospital; Assoc. Physician, French Hospital. (**2,** 1917)

Sherwood, Noble P., Ph.D., M.D. Univ. of Kansas, 517 Snow Hall, Lawrence. *Prof. of Bacteriology.* (**6,** 1928)

Sherwood, Thomas Cecil, Ph.D., M.D. 1824 Robert St., New Orleans, La. Southern Baptist Hospital. *Staff Member, Internal Medicine.* (**1,** 1938)

Shettles, Landrum B., Ph.D., M.D. Columbia Univ., College of Physicians and Surgeons, Box 330, 622 W. 168th St., New York City. (**1,** 1946)

Shideman, Frederick E., Ph.D., M.D. Univ. of Michigan, Dept. of Pharmacology, Ann Arbor. *Assoc. Prof.* (**3,** 1944)

Shils, Maurice E., Sc.D. 600 W. 168th St., New York City 32. *Asst. Prof. of Nutrition, School of Public Health, Columbia Univ.* (**5,** 1950)

Shimkin, Michael Boris, M.D. Univ. of California Med. School, San Francisco. *Dir., Lab. of Exper. Oncology, Laguna Honda Home.* (**4,** 1940)

Shinowara, George Y., Ph.D. Ohio State Univ. College of Medicine, Columbus. *Assoc. Prof., Dept. of Pathology; Chem. Pathologist, Univ. Hospital.* (**2,** 1949)

Shipley, Reginald A., M.D. Western Reserve Univ. School of Medicine, Cleveland 6, Ohio. *Asst. Prof. of Medicine.* (**1,** 1945)

Shipley, Robert E., M.D. Lilly Lab. for Clin. Research, Indianapolis City Hospital, Indianapolis, Ind. (**1,** 1945)

Shive, William, Ph.D. Univ. of Texas, Austin. *Assoc. Prof. of Chemistry.* (**2,** 1948)

Shlaer, Simon, Ph.D. Box 1663, Los Alamos, N. M. (**1,** 1938)

Shock, Nathan W., Ph.D. Baltimore City Hospitals, Baltimore 24, Md. *Chief, Section on Gerontology, USPHS, Natl. Insts. of Health, Bethesda, Md.* (**1,** 1942)

Shoemaker, Harold A., Ph.D. Univ. of Oklahoma School of Medicine, 801 N. E. 13th St., Oklahoma City. *Prof. of Pharmacology.* (**3,** 1941.

Shope, Richard E., M.D. Ridge Road, Kingston, N. J. *Merck Inst. for Therapeutic Research.* (**4,** 1934)

Shorr, Ephraim, M.D. New York Hospital, 525 E. 68th St., New York City. *Asst. Attending Physician; Asst. Prof. of Medicine, Cornell Univ. Med. College.* (**1,** 1931; **3,** 1942)

Shrigley, E. W., Ph.D., M.D. Indiana Univ. Med. Center, Dept. of Microbiology, 1040–1232 W. Michigan St., Indianapolis 7. (**6,** 1946)

Shwartzman, Gregory, M.D. 230 E. 50th St., New York City. *Head of Dept. of Bacteriology, Mount Sinai Hospital; Prof. of Bacteriology, Columbia Univ.* (**4,** 1929; **6,** 1930)

Sichel, F. J. M., Ph.D. Univ. of Vermont College of Medicine, Burlington. *Prof. and Chairman of Dept. of Physiology and Biophysics.* (**1,** 1939)

Sickles, Grace M., B.A. 2201 Twelfth St., Troy, N. Y. *Assoc. Bacteriologist, Div. of Labs. and Research, New York State Dept. of Health.* (**6,** 1932)

Sickles, Gretchen R., A.B. New York State Dept. of Health, Div. of Labs. and Research, Albany, N. Y. *Asst. Bacteriologist.* (**6,** 1937)

Siebenmann, Charles O., D.Eng. Connaught Med. Research Labs., Univ. of Toronto, Toronto 5, Ontario, Canada. *Research Assoc.; Assoc. in Hygiene and Preventive Medicine.* (**3,** 1946)

Siebert, Walter J., M.D. Lutheran Hospital, St. Louis, Mo. *Dir. of Labs.; Pathologist; Asst. Prof., Washington Univ.* (**4,** 1932)

Siegmund, Otto Hanns, D.V.M. 409 B St., Davis, Calif. *Jr. Veterinarian; Asst. Prof. , Univ. of California School of Veterinary Medicine.* (**3,** 1950)

Sigel, M. Michael, Ph.D. Children's Hospital, 1740 Bainbridge St., Philadelphia 46, Pa. *Assoc. in Virology, Univ. of Pennsylvania.* (**6,** 1950)

Silber, Robert H., Ph.D. Merck Inst., Rahway, N. J. *Head, Dept. of Biochemistry.* (**2,** 1948)

Silberberg, Martin, M.D. Snodgras Lab. of Pathology, 1430 Carroll St., St. Louis 4, Mo. *Asst. Prof. of Pathology, Washington Univ. School of Medicine; Pathologist, Hospital Div., City of St. Louis.* (**4,** 1944)

Silberberg, Ruth, M.D. Snodgras Lab. of Pathology, 1430 Carroll St., St. Louis 4, Mo. *Asst. Prof. of Pathology, Washington Univ. School of Medicine, Pathologist, Hospital Div., City of St. Louis.* (**4,** 1944)

Silverman, Milton, Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Scientist, Exper. Biology and Medicine Inst.* (**2,** 1950)

Silvette, Herbert, Ph.D. Meharry Med. College, Nashville, Tenn. *Visiting Prof. of Pharmacology.* (**1,** 1933; **3,** 1940)

Simmonds, Sofia, Ph.D. Yale Univ., Osborn Botanical Lab., New Haven 11, Conn. *Asst. Prof. of Microbiology and Biochemistry.* (**2,** 1948)

Simonds, James P., Ph.D., M.D. 2033 W. Morse Ave., Chicago 45, Ill. *Prof. Emeritus of Pathology, Northwestern Univ. Med. School.* (**4,** prior to 1920)

Simonsen, Daisy G., Ph.D. Los Angeles County Hospital, 1200 N. State St., Los Angeles 33, Calif. *Chemist and Toxicologist; Instr. in Medicine, Univ. of Southern California Med. School.* (**2,** 1949)

Simonson, Ernst, M.D. Univ. of Minnesota, Lab. of Physiological Hygiene, Stadium South Tower, Minneapolis 14. *Assoc. Prof. of Physiology.* (**1,** 1941)

Simpson, Miriam E., Ph.D., M.D. Univ. of California, Berkeley. *Prof. of Anatomy.* (**1,** 1946)

Singal, Sam A., Ph.D. Med. College of Georgia, Augusta. *Assoc. Prof. of Biochemistry.* (**2,** 1948)

Singer, Thomas P., Ph.D. Western Reserve Univ.,

Cleveland, Ohio. *Asst. Prof. of Biochemistry.* (**2,** 1948)

Sizer, Irwin W., Ph.D. Massachusetts Inst. of Technology, Cambridge. *Assoc. Prof. of Physiology.* (**1,** 1944)

Skinner, John Taylor, Ph.D. The Grapette Co., Camden, Ark. *Chief Chemist.* (**2,** 1946)

Slaughter, Donald, M.D. Univ. of South Dakota School of Med. Sciences, Vermillion. *Dean.* (**3,** 1938)

Slonaker, James R., Ph.D. 334 Kingsley Ave., Palo Alto, Calif. *Prof. of Physiology, Leland Stanford Jr. Univ.* (**1R,** 1917)

Smadel, Joseph Edwin, M.D. Army Med. Dept., Research and Grad. School, Washington 12, D. C. *Chief, Dept. of Virus and Rickettsial Diseases.* (**4,** 1940; **6,** 1937)

Small, James C., M.D. 101 S. 39th St., Philadelphia, Pa. *Assoc. in Medicine, Univ. of Pennsylvania Grad. School of Medicine.* (**4,** 1927)

Smetana, Hans F., M.D. Armed Forces Inst. of Pathology, 7th St. and Independence Ave., Washington 25, D. C. *Chief, Dept. of Pathology.* (**4,** 1934)

Smith, Arthur H., Ph.D. Wayne Univ. College of Medicine, Detroit 26, Mich. *Prof. of Physiological Chemistry.* (**2,** 1921; **5,** 1933)

Smith, Austin Edward, M.D. American Med. Assoc., 535 N. Dearborn St., Chicago, Ill. *Editor, J.A.M.A.* (**3,** 1942)

Smith, Clarence A., Ph.D. Standard Brands, Inc., 595 Madison Ave., New York City. *Technical Dir., Agricultural Dept.* (**1,** 1921)

Smith, David T., M.D. Duke Hospital, Durham, N. C. *Prof. of Bacteriology and Assoc. Prof. of Medicine.* (**5,** 1943; **6,** 1949)

Smith, Dietrich Conrad, Ph.D. Univ. of Maryland School of Medicine, Lombard and Greene Sts., Baltimore. *Assoc. Prof. of Physiology.* (**1,** 1937)

Smith, Douglas E., Ph.D. Argonne Natl. Lab., P. O. Box 5207, Chicago 80, Ill. (**1,** 1947)

Smith, Edwin L., Ph.D. Univ. of Texas Dental School, Houston. *Prof. of Physiology.* (**1,** 1948)

Smith, Elinor Van Dorn, Ph.D. Smith College, Northampton, Mass. *Assoc. Prof. of Bacteriology.* (**6,** 1940)

Smith, Elizabeth R. B., Ph.D. % Dr. Paul K. Smith, 1335 H St., N.W., Washington 5, D. C. (**2,** 1938)

Smith, Emil L., Ph.D. Univ. of Utah School of Medicine, Salt Lake City 1. *Prof. of Biochemistry; Research Prof. of Medicine.* (**2,** 1946)

Smith, Erma A., Ph.D., M.D. S. H. Camp Co., Jackson, Mich. (**1,** 1928)

Smith, Falconer, Ph.D. 6020 Tilden Lane, Rockville, Md. *Scientist (officer), USPHS; Research in Radiobiology.* (**1,** 1950)

Smith, George H., Ph.D. Yale Univ. School of Medicine, New Haven, Conn. *Prof. of Immunology and Asst. Dean; Chairman of Dept. of Bacteriology, Yale Univ.* (**6,** 1918)

Smith, H. P., M.S., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Delafield Prof. of Pathology.* (**1,** 1937; **4,** 1925)

Smith, Homer W., Sc.D. New York Univ., Bellevue Med. Center, 477 First Ave., New York City. *Prof. of Physiology.* (**1,** 1923; **2,** 1930)

Smith, Janice M., Ph.D. Univ. of Illinois, Dept. of Home Economics, Urbana. *Prof. and Chief of Nutrition.* (**5,** 1947)

Smith, John R., A.M., M.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Asst. Prof. of Medicine.* (**1,** 1947)

Smith, Lawrence Weld, M.D. 119 E. 26th St., New York City 10. (**4,** 1927)

Smith, Lee Irvin, Ph.D. Univ. of Minnesota School of Chemistry, Minneapolis 14. *Prof. and Chief of Div. of Organic Chemistry.* (**2,** 1942)

Smith, Margaret Cammack, Ph.D. El Encanto Estates, Tucson, Ariz. (**5,** 1933)

Smith, Margaret H. D., M.D., B. es lettres. Tulane Univ., 1430 Tulane Ave., New Orleans, La. *Asst. Prof. of Pediatrics.* (**6,** 1950)

Smith, Maurice I., M.D. 8415 Lynbrook Dr., Bethesda, Md. *Principal Pharmacologist, Retired, USPHS.* (**1R.** 1920; **3R,** 1916)

Smith, Paul K., Ph.D. George Washington Univ. School of Medicine, 1335 H St., N.W., Washington 5, D. C. *Prof. of Pharmacology and Exec. Officer of Dept.* (**2,** 1937; **3,** 1937)

Smith, Paul W., Ph.D. Univ. of Oklahoma School of Medicine, 801 E. 13th St., Oklahoma City. *Assoc. Prof. of Pharmacology.* (**1,** 1933)

Smith, Philip Edward, Ph.D. Columbia Univ., 630 W. 168th St., New York City 32. *Prof. of Anatomy.* (**1,** 1923)

Smith, Ralph G., M.D., Ph.D. Federal Security Agency, Food and Drug Admin., Washington 25, D. C. *Med. Officer; Chief of New Drug Section.* (**3,** 1929)

Smith, R. Blackwell, Jr., Ph.D. Med. College of Virginia, Richmond 19. *Assoc. Prof. of Pharmacology.* (**3,** 1944)

Smith, Sedgwick E., Ph.D. Cornell Univ., Dept. of Animal Husbandry, Ithaca, N. Y. *Animal Physiologist.* (**5,** 1945)

Smith, Susan Gower, M.A. Duke Univ., Durham, N. C. *Assoc. in Dept. of Medicine and Nutrition, School of Medicine.* (**5,** 1939)

Smith, Sybil L., A. M. 1421 44th St., N. W., Washington, D. C. (**5,** 1940)

Smith, Wilbur Kenneth, M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Assoc. Prof. of Anatomy.* (**1,** 1939)

Smith, Willie W., Ph.D. Natl. Insts. of Health, Bethesda, Md. *Physiologist.* (**1,** 1941)

Smithburn, Kenneth C., M.D. Rockefeller Foun-

dation, 49 W. 49th St., New York City. *Staff Member, International Health Div.* (**6,** 1937)

Smolens, Joseph, B.S. Children's Hospital, 1740 Bainbridge St., Philadelphia, Pa. (**6,** 1943)

Smythe, C. V., Ph.D. 5000 Richmond St., Philadelphia, Pa. *Head of Biochemistry, Rohm & Haas Co.* (**2,** 1934)

Snape, William J., M.D. Jefferson Med. College, Philadelphia, Pa. *Assoc. in Physiology.* (**1,** 1948)

Snell, Albert M., M.D. Palo Alto Clinic, 300 Homer St., Palo Alto, Calif. (**4,** 1930)

Snell, Esmond E., Ph.D. Univ. of Wisconsin, Madison 6. *Prof. of Biochemistry.* (**2,** 1942; **5,** 1946)

Snider, Ray S., Ph.D. Northwestern Univ. School of Medicine, 303 E. Chicago Ave., Chicago 11, Ill. *Assoc. Prof. of Anatomy.* (**1,** 1949)

Snyder, Charles D., Ph.D. 4709 Keswick Rd., Baltimore, Md. *Prof. Emeritus of Exper. Physiology, Johns Hopkins Univ.* (**1R,** 1907)

Snyder, Franklin Faust, M.D. Boston Lying-In Hospital, Boston, Mass. (**1,** 1936)

Snyder, John Crayton, M.D. Harvard School of Public Health, 695 Huntington Ave., Boston, Mass. *Prof. of Microbiology.* (**6,** 1950)

Sobel, Albert E., Ph.D. Jewish Hospital of Brooklyn, 555 Prospect Pl., Brooklyn 16, N. Y. *Head of Dept. of Chemistry; Special Lecturer, Long Island College of Medicine.* (**2,** 1939)

Sobin, Sidney S., M.D., Ph.D. 405 N. Bedford Drive, Beverly Hills, Calif. *Research Assoc. in Physiology, Univ. of Southern California.* (**1,** 1949)

Sobotka, Harry H., Ph.D. Mount Sinai Hospital, Fifth Ave. and 100th St., New York City 29. *Head of Dept. of Chemistry.* (**2,** 1932; **5,** 1933)

Solandt, Donald Young, M.D., Ph.D. Univ. of Toronto, Toronto, Ontario, Canada. *Prof. of Physiology in charge of Biophysics, Faculty of Medicine; Prof. and Head of Dept. of Hygiene, School of Hygiene.* (**1,** 1937)

Sollmann, Torald, M.D. 14327 Superior Rd., Cleveland, Ohio. *Dean and Prof. Emeritus of Pharmacology, Western Reserve Univ.* (**1R,** 1902; **2,** 1906; **3,** 1908)

Solotorovsky, Morris, Ph.D. 203 W. 5th St., Plainfield, N. J. *Merck Inst. for Therapeutic Research, Rahway, N. J.; Research Assoc. in Chemotherapy.* (**6,** 1946)

Somogyi, Michael, Ph.D. 216 S. Kingshighway, St. Louis, Mo. *Biochemist, Jewish Hospital of St. Louis.* (**2,** 1927)

Sonnenschein, Ralph R., M.D., Ph.D. Univ. of Illinois, College of Medicine, Chicago 12. *Research Asst. in Psychiatry.* (**1,** 1950)

Soskin, Samuel, M.D., Ph.D. Michael Reese Hospital, 29th St. and Ellis Ave., Chicago 16, Ill. *Med. Dir. and Dir. of Research Inst.; Dean, Postgrad. School.* (**1,** 1930; **5,** 1933)

Soule, Malcolm H., Sc.D. Univ. of Michigan, Ann Arbor. *Prof. of Bacteriology, and Chairman of Dept. of Bacteriology.* (**4,** 1927; **6,** 1925)

Spain, Will C., M.D. 116 E. 53rd St., New York City. *Clin. Prof. of Medicine, Post-Grad. Med. School, Columbia Univ.* (**6,** 1923)

Spaulding, Earle H., Ph.D. Temple Univ., School of Medicine, Broad St. at Ontario, Philadelphia 40, Pa. *Prof. of Bacteriology; Head of Dept.* (**6,** 1950)

Spealman, C. R., Ph.D. Dept. of Commerce, Civil Aeronautics Admin., Washington 25, D. C. (**1,** 1940)

Specht, Heinz, Ph.D. Natl. Insts. of Health, Bethesda, Md. *Scientist, USPHS* (**1,** 1941)

Spector, Harry, Ph.D. Quartermaster Food and Container Inst. for the Armed Forces, 1849 W. Pershing Rd., Chicago 9, Ill. *Chief, Nutrition Div.* (**5,** 1950)

Speirs, Mary, Ph.D. Georgia Agricultural Exper. Station, Experiment. *Head of Dept. of Home Economics.* (**5,** 1949)

Sperry, Roger W., Ph.D. Univ. of Chicago, Dept. of Anatomy, Chicago 37, Ill. (**1,** 1945)

Sperry, Warren M., Ph.D. New York State Psychiatric Inst., 722 W. 168th St., New York City 32. *Principal Research Biochemist; Assoc. Prof. of Biological Chemistry, Columbia Univ.* (**2,** 1929; **5,** 1933)

Spicer, Samuel S., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Commissioned Officer, USPHS, Surgeon.* (**1,** 1950)

Spiegel, Ernest A., M.D. Temple Univ. School of Medicine, Broad and Ontario Sts., Philadelphia, Pa. *Prof. of Exper. Neurology.* (**1,** 1936)

Spiegel-Adolf, Mona, M.D. Temple Univ. School of Medicine, Broad and Ontario Sts., Philadelphia, Pa. *Prof. and Head of Dept. of Colloid Chemistry.* (**2,** 1933)

Spiegelman, Sol, Ph.D. Univ. of Illinois, Dept. of Bacteriology, Urbana. (**1,** 1946)

Spies, Tom D., M.D. Hillman Hospital, Birmingham, Ala. *Dir. of Nutrition Clinic.* (**3,** 1941; **4,** 1940; **5,** 1938)

Spink, Wesley W., M.D. Univ. of Minnesota Hospital, Minneapolis. *Assoc. Prof. of Medicine, Univ. of Minnesota Med. School.* (**6,** 1940)

Spohn, Adelaide, Ph.D. Elizabeth McCormick Memorial Fund, 848 N. Dearborn St., Chicago, Ill. *Nutritionist.* (**5,** 1933)

Spoor, Herbert J., Ph.D., M.D. 6705A 186th Lane, Flushing, L. I., N. Y. *Dir., Dermatological Research, New York Med. College.* (**1,** 1945)

Sprent, J. F. A., Ph.D. Univ. of Toronto, 43 Queens Park, Toronto 5, Ontario, Canada. *Asst. Prof.; Sr. Research Fellow, Ontario Research Foundation.* (**6,** 1949)

Sprinson, David B., Ph.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Biochemistry, 630 W. 168th St., New York City 32. *Research Assoc.* (**2,** 1949)

Sproul, Edith E., M.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Pathology, 630 W. 168th St., New York City 32. *Assoc. Prof.* (**4,** 1941)

Sprunt, Douglas H., M.D., M.S. Univ. of Tennessee, Memphis. *Prof. of Pathology; Head of Dept. of Pathology and Bacteriology.* (**4,** 1934; **6,** 1936)

Stacy, Ralph W., Ph.D. Ohio State Univ., Dept. of Physiology, Hamilton Hall, Columbus 10. *Asst. Prof.* (**1,** 1949)

Stadie, William C., M.D. 821 Maloney Clinic, 36th and Spruce Sts., Philadelphia 4, Pa. *John Herr Musser Prof. of Research Medicine, Univ. of Pennsylvania.* (**2,** 1922)

Stanley, Wendell M., Ph.D. Univ. of California, Rm. 223, Forestry Bldg., Berkeley 4. *Prof. and Chairman of Dept. of Biochemistry; Dir. of Virus Lab.* (**2,** 1936)

Stannard, James Newell, Ph.D. Univ. of Rochester Med. School, Atomic Energy Project, Rochester 7, N. Y. *Assoc. Prof. of Radiation Biology.* (**1,** 1938)

Stansly, Philip G., Ph.D. American Cyanamid Co., Stamford Research Labs., Stamford, Conn. *Microbiologist, Chemotherapy Dept.* (**2,** 1950)

Stare, Fredrick J., Ph.D., M.D. 695 Huntington Ave., Boston 15, Mass. *Prof. of Nutrition, Harvard Univ.* (**2,** 1937; **5,** 1942)

Starr, Isaac, M.D. Hospital of the Univ. of Pennsylvania, Philadelphia. *Hartzell Prof. of Research Therapeutics.* (**1,** 1929; **3,** 1942)

Stavitsky, Abram B., Ph.D., V.M.D. Western Reserve Univ. School of Medicine, 2109 Adelbert Rd., Cleveland 6, Ohio. *Asst. Prof. of Microbiology.* (**6,** 1950)

Stavraky, George W., M.D. Univ. of Western Ontario, Med. School, London, Ontario, Canada. *Prof. of Physiology.* (**1,** 1937; **3,** 1944)

Stead, Eugene A., Jr., M.D. Duke Univ., Dept. of Medicine, Durham, N. C. (**1,** 1945)

Stearns, Genevieve, Ph.D. State Univ. of Iowa, College of Medicine, Iowa City. *Research Prof. of Pediatrics.* (**2,** 1932; **5,** 1937)

Steel, Matthew, Ph.D. New York State Univ. Med. Center at New York City, 350 Henry St., Brooklyn, N. Y. *Prof. of Biological Chemistry.* (**2,** 1909)

Steele, J. Murray, M.D. Third (N.Y.U.) Research Div., Goldwater Memorial Hospital, Welfare Island, New York City. *Assoc. Prof. of Medicine, New York Univ.; Dir. of 3rd Med. Div., Welfare Hospital.* (**1,** 1936)

Steenbock, Harry, Ph.D. Univ. of Wisconsin, Madison. *Prof. of Biochemistry.* (**2,** 1912; **5,** 1933)

Steffee, C. Harold, M.D., Ph.D. U. S. Marine Hospital, Dept. of Pathology, New Orleans 15, La. *Resident.* (**4,** 1950)

Steggerda, F. R., Ph.D. Univ. of Illinois, 416 Natural History Bldg., Urbana. *Assoc. Prof. of Physiology.* (**1,** 1934)

Stehle, Raymond Louis, Ph.D. McGill Univ., Faculty of Medicine, Montreal, Quebec, Canada. *Prof. of Pharmacology.* (**2,** 1920; **3,** 1922)

Steigman, Alex J., M.S., M.D. Louisville General Hospital, E. Chestnut St., Louisville 21, Ky. *Consultant Clin. Epidemiologist, Nat'l. Foundation for Infantile Paralysis.* (**6,** 1949)

Steigmann, Frederick, M.S., M.D. 348 S. Hamlin Ave., Chicago, Ill. *Assoc. in Medicine, Univ. of Illinois, College of Medicine; Assoc. Attending Physician, Cook County Hospital.* (**3,** 1942)

Steiman, S. E., Ph.D., M.D. 23 Broad St., Lynn, Mass. *Asst. Physician, Metropolitian State Hospital, Waltham, Mass.* (**1,** 1939)

Stein, George J., Ph.D. 406th Med. General Lab. APO 500 %P. M., San Francisco, Calif. *Chief, Section of Bacteriology and Serology.* (**6,** 1947)

Stein, William Howard, Ph.D. Rockefeller Inst. for Med. Research, 66th and York Ave., New York City 21. *Assoc. in Chemistry.* (**2,** 1946)

Steinbach, H. Burr, Ph.D. Univ. of Minnesota, Dept. of Zoology, Minneapolis. (**1,** 1934)

Steinberg, Bernhard, M.D. Toledo Hospital Inst. of Med. Research, Toledo, Ohio. *Dir. of Toledo Hospital Inst.; Chief Pathologist and Dir. of Labs., Toledo Hospital.* (**4,** 1928; **6,** 1946)

Steiner, Paul E., M.D. Univ. of Chicago, Chicago, Ill. *Prof. of Pathology.* (**4,** 1939)

Steinhardt, Jacinto, Ph.D. 4004 Laird Pl., Chevy Chase 15, Md. *Dir., Operations Evaluation Group, Mass. Inst. of Technology.* (**2,** 1939)

Steinhaus, Arthur H., Ph.D. 5315 Drexel Ave., Chicago, Ill. *Prof. of Physiology, George Williams College, Hyde Park.* (**1,** 1928)

Stekol, Jakob A., D.Sc. Lankenau Hospital Research Inst., Philadelphia 30, Pa. *Assoc. Member* (**2,** 1936)

Stern, Kurt G., Ph.D. Polytechnic Inst. of Brooklyn, 99 Livingston St., Brooklyn 2, N. Y. *Adjunct Prof. of Biochemistry.* (**2,** 1938)

Stetten, DeWitt, Jr., M.D., Ph.D. Public Health Research Inst. of The City of New York, Inc., Foot of E. 15th St., New York City 9. *Chief, Div. of Nutrition and Physiology.* (**2,** 1944)

Stetten, Marjorie R., Ph.D. Public Health Research Inst. of The City of New York, Inc., Foot of E. 15th St., New York City 9. *Assoc., Div. of Nutrition and Physiology.* (**2,** 1947)

Stevens, S. Smith, Ph.D. Harvard Univ., Memorial Hall, Cambridge, Mass. *Prof. of Psychology; Dir. of Psychological Labs.* (**1,** 1937)

Stevenson, James A. F., M.A., M.D.C.M. Univ. of Western Ontario, Dept. of Med. Research,

London, Ontario, Canada. *Assoc. Prof.; Lecturer in Physiology.* (**1,** 1950)

Stewart, Dorothy R., Ph.D. Rockford College, Rockford, Ill. (**1,** 1947)

Stewart, Fred W., M.D. Memorial Hospital, 444 E. 68th St., New York City. *Pathologist; Prof. of Pathology, Cornell Med. School.* (**4,** 1928)

Stewart, Harold L., M.D. Natl. Cancer Inst., Bethesda, Md. *Chief of Pathology Section.* (**4,** 1936)

Stewart, Wellington B., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. in Pathology.* (**4,** 1950)

Stewart, Winifred Bayard, M.D., M.A. 1930 Spruce St., Philadelphia, Pa. *Prof. of Neurology, Woman's Med. College of Pennsylvania.* (**1,** 1941)

Stickney, J. Clifford, Ph.D. West Virginia Univ. School of Medicine, Morgantown. *Assoc. Prof. of Physiology.* (**1,** 1944)

Stiebeling, Hazel K., Ph.D. U. S. Dept. of Agriculture, Washington, D. C. *Chief, Bureau of Human Nutrition and Home Economics.* (**5,** 1933)

Stier, Theodore J. B., Ph.D. Indiana Univ. Med. School, Bloomington. *Assoc. Prof. of Physiology.* (**1,** 1938)

Still, Eugene U., Ph.D. Box 991, Sarasota, Fla. (**1,** 1929)

Stimmel, Benjamin F., Ph.D. Rees-Stealy Med. Research Fund, Ltd., 2001 Fourth Ave., San Diego, Calif. *Research Biochemist.* (**2,** 1947)

Stock, Aaron H., M.D. Children's Hospital of Pittsburgh, 125 De Soto St., Pittsburgh, Pa. (**6,** 1947)

Stockton, Andrew Benton, M.D. 655 Sutter St., San Francisco, Calif. *Asst. Clin. Prof. of Medicine.* (**3,** 1931)

Stoerk, Herbert C., M.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Head of Dept. of Cancer Research.* (**4,** 1948)

Stoesser, Albert V., M.D., Ph.D. Univ. of Minnesota Med. School, 1409 Willow St., Loring Park, Minneapolis. *Clin. Assoc. Prof. of Pediatrics.* (**6,** 1949)

Stohlman, Edward F., LL.B. Natl. Insts. of Health, Bethesda, Md. *Assoc. Pharmacologist.* (**3,** 1948)

Stokinger, Herbert E., Ph.D. A. E. Project, Univ. of Rochester, P. O. Box 287, Station 3, Rochester. N. Y. *Assoc. Prof. of Pharmacology; Chief of Industrial Hygiene and Toxicology.* (**3,** 1950; **6,** 1947)

Stokstad, E. L. Robert, Ph.D. Lederle Labs., Pearl River, N. Y. *Asst. Dir., Nutrition and Physiology Dept.* (**2,** 1947; **5,** 1942)

Stoland, O. O., Ph.D. 1845 Learnard Ave., Lawrence, Kan. *Prof. of Physiology and Pharmacology, Univ. of Kansas.* (**1,** 1913)

Stone, Gilbert C. H. Ph.D. City College of New York, Dept. of Chemistry, Convent Ave. and 140th St., New York City 31. *Asst. Prof.* (**2,** 1950)

Stone, William E., Ph.D. Univ. of Wisconsin, Dept. of Physiology, Madison. *Asst. Prof. of Physiology.* (**1,** 1945)

Stormont, Robert T., Ph.D., M.D. American Med. Assoc., 535 N. Dearborn St., Chicago, Ill. *Sec. of Council on Pharmacy and Chemistry.* (**3,** 1941)

Storvick, Clara A., Ph.D. Oregon State College, School of Home Economics, Corvallis, Ore. *Assoc. Prof. of Foods and Nutrition.* (**5,** 1947)

Stotz, Elmer, H., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Prof. of Biochemistry.* (**2,** 1939)

Stoughton, Roger W., Ph.D. Mallinckrodt Chemical Works, 3600 N. Second St., St. Louis, Mo. *Research Chemist.* (**3,** 1939)

Strong, Frank M., Ph.D. Univ. of Wisconsin, Dept. of Biochemistry, Madison 6. *Prof. of Biochemistry.* (**2,** 1941)

Struck, Harold Carl, Ph.D. Creighton Univ. School of Medicine, 302 N. 14th St., Omaha 2, Nebr. (**1,** 1940)

Stuart, Charles A., Ph.D. 372 Lloyd Ave., Providence, R. I. *Assoc. Prof. of Biology, Brown Univ.* (**6,** 1935)

Stumpf, Paul K., Ph.D. Univ. of California, Div. of Plant Biochemistry, 3048 Life Science Bldg., Berkeley 4. *Asst. Prof.* (**2,** 1950)

Sturgis, Cyrus Cressey, M.D. Simpson Memorial Inst., Ann Arbor, Mich. *Dir. of Thomas Henry Simpson Memorial Inst. for Med. Research; Chairman, Dept. of Medicine, Univ. of Michigan Hospital.* (**4,** 1927)

Sturkie, Paul D., Ph.D. Rutgers Univ., New Brunswick, N. J. *Assoc. Research Specialist in Poultry Husbandry; Assoc. Prof. of Poultry Husbandry.* (**1,** 1948)

Stutzman, Jacob W., Ph.D., M.D. Boston Univ. School of Medicine, Boston, Mass. *Assoc. Prof. of Pharmacology.* (**1,** 1946; **3,** 1948)

Sugg, John Y., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Assoc. Prof. of Bacteriology and Immunology.* (**6,** 1938)

Sulkin, S. Edward, Ph.D. Southwestern Med. College, Dallas, Tex. *Prof. and Chairman of Dept. of Bacteriology and Immunology.* (**6,** 1944)

Sullivan, Michael Xavier, Ph.D. Chemo-Medical Research Inst., Georgetown Univ., 37th & O Sts., N.W., Washington, D. C. *Dir. and Research Prof. of Chemistry.* (**2,** 1909)

Sulzberger, Marion B., M.D. 999 5th Ave., New York City. *Assoc. Clin. Prof. of Dermatology and Syphilology, N. Y. Post-Grad. Med. School of Columbia Univ.; Assoc. Dir. of Skin and Cancer Unit of N. Y. Post-Grad. Hospital.* (**6,** 1936)

Summerson, William H., Ph.D. Med. Div., Army

Chemical Center, Md. *Chief, Biochemistry Section.* (**2,** 1942)

Sumner, J. B., Ph.D. Cornell Univ., Ithaca, N. Y. *Dir., Enzyme Chemistry Lab.* (**2,** 1919)

Sunderman, F. William, M.D., Ph.D. Grady Memorial Hospital, 36 Butler St., S.E. Atlanta 3, Ga. *Dir., Clin. Labs.; Prof., Clin. Medicine, Emory Univ.* (**2,** 1931)

Sundstroem, Edward S., M.D. Univ. of California, Berkeley 4. *Prof. Emeritus of Biochemistry.* (**2,** 1919)

Sure, Barnett, Ph.D. Univ. of Arkansas, Fayetteville. *Head of Dept. and Prof. of Agricultural Chemistry.* (**2,** 1923; **5,** 1933)

Sutherland, Earl W., Jr., M.D. Washington Univ. School of Medicine, Dept. of Biological Chemistry, St. Louis 10, Mo. *Asst. Prof.* (**2,** 1950)

Sutherland, George F., M.D. Duke Univ. School of Medicine, Durham, N. C. (**1,** 1939)

Sutton, T. Scott, Ph.D. Ohio State Univ., Columbus. *Prof.; Dir. of Inst. of Nutrition and Food Technology.* (**5,** 1936)

Svirbely, Joseph L., Ph.D. 1002 Fawcett Ave., McKeesport, Pa. (**3,** 1945)

Swain, Robert E., Ph.D. 634 Mirada Ave., Stanford Univ., Calif. *Prof. Emeritus of Chemistry.* (**2,** 1909)

Swann, Howard G., Ph.D. Univ. of Texas Med. School, Dept. of Physiology, Galveston. *Asst. Prof. of Physiology.* (**1,** 1940)

Swanson, Marjorie A., Ph.D. Bowman Gray School of Medicine, Dept. of Biochemistry, Winston-Salem 7, N. C. *Asst. Prof.* (**2,** 1950)

Swanson, Pearl P., Ph.D. Iowa State College, Ames. *Prof. of Foods and Nutrition, Dept. of Foods and Nutrition.* (**5,** 1933)

Swanson, William W., M.S., M.D. 2376 E. 71st St., Chicago, Ill. *Asst. Prof. of Pediatrics, Northwestern Univ.* (**2,** 1938)

Sweeney, H. Morrow, Ph.D. Aero-Med. Lab., Wright-Patterson Air Force Base, Dayton, Ohio. (**1,** 1939)

Sweet, J. E., M.D., Sc.D. Unadilla, N. Y. *Prof. Emeritus of Surgical Research, Cornell Univ. Med. College.* (**1R,** 1913)

Swendseid, Marian E., Ph.D. Univ. of Michigan, Simpson Memorial Inst., Ann Arbor. *Research Biochemist.* (**2,** 1950)

Swift, Homer, M.D., D.Sc. 888 Park Ave., New York City. *Member, Rockefeller Inst. for Med. Research; Physician to Hospital of Rockefeller Inst. for Med. Research.* (**6,** 1920)

Swift, Raymond W., Ph.D. Pennsylvania State College, State College. *Prof. and Head of Dept. of Animal Nutrition.* (**5,** 1934)

Swingle, Wilbur Willis, Ph.D. Princeton Univ., Princeton, N. J. *Prof. of Biology.* (**1,** 1924)

Swinyard, Ewart A., Ph.D. Univ. of Utah, Salt Lake City. *Prof. of Pharmacy, School of Pharmacy.* (**3,** 1948)

Sydenstricker, V. P., M.D. Med. College of Georgia, Augusta. *Prof. of Medicine.* (**5,** 1944)

Sykes, Joseph F., Ph.D. U. S. Dept. of Agriculture, Bureau of Dairy Industry, Beltsville, Md. *Physiologist.* (**1,** 1942)

Syverton, Jerome T., M.D. Univ. of Minnesota, Minneapolis, Minn. *Prof. and Head, Dept. of Bacteriology and Immunology.* (**4,** 1940; **6,** 1947)

Szego, Clara M., Ph.D. Univ. of California, Med. School, Los Angeles. *Asst. Prof. of Zoology.* (**1,** 1946)

Szent-Gyorgyi, Albert, Ph.D., M.D. Natl. Insts. of Health, Bethesda 14, Md. (**2,** 1949)

Szepsenwol, Josel, M.D. Emory Univ. School of Medicine, Emory University, Ga. *Asst. Prof. of Anatomy.* (**1,** 1948)

Tabor, Herbert, M.D. Natl. Insts. of Health, Pharmacology Section, Exper. Biology and Medicine Inst., Bethesda 14, Md. *Surgeon, USPHS.* (**3,** 1947)

Tager, Morris. Western Reserve Univ., Cleveland, Ohio. *Dept. of Microbiology.* (**6,** 1948)

Tainter, M. L., M.A., M.D. Sterling-Winthrop Research Inst., 33 Riverside Ave., Rensselaer, N. Y. *Director.* (**1,** 1929; **3,** 1927)

Talbot, Samuel Armstrong, Ph.D. Johns Hopkins Hospital, Baltimore, Md. *Instr. in Physiological Optics, Johns Hopkins Univ.* (**1,** 1940)

Taliaferro, William H., Ph.D. Univ. of Chicago, Dept. of Bacteriology, Chicago, Ill. *Eliakim H. Moore Distinguished Service Prof. of Parasitology and Dean of Div. of Biological Sciences.* (**6,** 1930)

Tannenbaum, Albert, M.D. Michael Reese Hospital, 29th St. & Ellis Ave., Chicago, Ill. *Dir. of Dept. of Cancer Research.* (**4,** 1942)

Tarr, H. L. A., Ph.D. Fisheries Exper. Station, 898 Richards St., Vancouver, B. C., Canada. *Sr. Bacteriologist, Dept. of Bacteriology.* (**2,** 1950)

Tarver, Harold, Ph.D. Univ. of California, Div. of Biochemistry, Berkeley 4. *Asst. Prof. of Biochemistry.* (**2,** 1947)

Tashiro, Shiro, Ph.D., M.D. Univ. of Cincinnati College of Medicine, Cincinnati, Ohio. *Prof. of Biochemistry.* (**1,** 1913; **2,** 1913)

Tatum, Arthur L., Ph.D., M.D. Service Memorial Inst., Univ. of Wisconsin, Madison. *Prof. of Pharmacology.* (**1,** 1913; **3,** 1919)

Tatum, Edward L., Ph.D. Stanford Univ., School of Biological Sciences, Stanford University, Calif. *Prof. of Biology.* (**2,** 1947)

Tauber, Henry, Ph.D. V. D. Venereal Disease Exper. Lab., USPHS, Chapel Hill, N. C. *Sr. Biochemist; Assoc. Prof. of Exper. Medicine, School of Public Health, Univ. of North Carolina.* (**2,** 1933)

Taylor, A. N., Ph.D. Univ. of Oklahoma School

of Medicine, Oklahoma City. *Asst. Prof. and Chairman of Dept. of Physiology.* (**1,** 1948)

Taylor, Alton R., Ph.D. Parke, Davis & Co., Detroit 32, Mich. *Sr. Researcher, Research Div.* (**2,** 1947)

Taylor, Craig L., Ph.D. Univ. of California, Dept. of Engineering, Los Angeles. *Assoc. Prof. of Engineering.* (**1,** 1945)

Taylor, Dermot B., M.B., B.Ch., B.A.O. Univ. of California Med. Center, San Francisco 22. *Assoc. Prof. of Pharmacology.* (**3,** 1950)

Taylor, Fred A., Ph.D. 320 E. North Ave., N. S., Pittsburgh, Pa. *Biochemist, Singer Memorial Lab.* (**2,** 1933)

Taylor, Haywood M., Ph.D. Duke Univ. School of Medicine, Durham, N. C. *Prof. of Toxicology and Assoc. Prof. of Biochemistry; Biochemist and Toxicologist to Duke Hospital.* (**4,** 1942)

Taylor, Henry Longstreet, Ph.D. Univ. of Minnesota, School of Public Health, Minneapolis. *Prof. of Physiological Hygiene.* (**1,** 1944)

Taylor, John Fuller, Ph.D. Washington Univ. School of Medicine, Euclid and Kingshighway, St. Louis, Mo. *Asst. Prof. of Biological Chemistry.* (**2,** 1944)

Taylor, M. Wight, Ph.D. New Jersey Agricultural Exper. Station, New Brunswick. *Assoc. Biochemist in Nutrition and Assoc. Prof. of Agricultural Biochemistry, Rutgers Univ.* (**5,** 1944)

Taylor, Norman Burke, M.D. Univ. of Toronto, Toronto 5, Ontario, Canada. *Prof. of Physiology.* (**1,** 1922)

Taylor, Richard M., Rockefeller Foundation, 66th St. and York Ave., New York City. *Member Staff, Internatl. Health Div.* (**6,** 1949)

Taylor, Robert D., M.D. Clinical Research Div., Cleveland Foundation, Cleveland 6, Ohio. *Member.* (**1,** 1945)

Teague, Robert S., Ph.D., M.D. Medical College of Alabama, Dept. of Pharmacology, Birmingham 5. *Prof. and Chairman of Dept. of Pharmacology.* (**3,** 1942)

Templeton, Roy D., B.S. 133 Handley St., San Antonio, Tex. (**1,** 1935)

Ten Broeck, Carl, M.D. 94 Battle Rd., Princeton, N. J. (**4R,** 1932)

Teply, Lester J., Ph.D. Univ. of Wisconsin, Enzyme Inst., 1702 University Ave., Madison. *Project Assoc.* (**2,** 1950)

Tepperman, Jay, M.D. State Univ. of New York School of Medicine, Dept. of Pharmacology, Syracuse, N. Y. *Assoc. Prof. of Pharmacology.* (**1,** 1944)

Terplan, Kornel L., M.D. Univ. of Buffalo School of Medicine, Buffalo, N. Y. *Prof. of Pathology.* (**4,** 1935)

Terry, Roger, M.D. Univ. of Rochester School of Medicine and Dentistry, Dept. of Pathology, Rochester 7, N. Y. *Instr. in Pathology.* (**4,** 1949)

Thannhauser, S. J., M.D., Ph.D. Pratt Diagnostic Hospital, 30 Bennet St., Boston, Mass. *Assoc. Chief; Prof. of Clin. Medicine, Tufts Med. School.* (**2,** 1937)

Thatcher, Jonathan S., M.D., Ph.D. State College of Washington, Finch Memorial Hospital, Pullman. *Staff Physician.* (**1,** 1949)

Thauer, Rudolf, M.D. 5628 Uber St., Philadelphia 41, Pa. *Physiologist, Research Work in N.A.M.C. U. S. Navy.* (**1,** 1949)

Thayer, Sidney Allen, Ph.D. 1402 S. Grand Blvd., St. Louis 4, Mo. *Assoc. Prof. of Biochemistry, St. Louis Univ. School of Medicine.* (**2,** 1933)

Therman, Per-Olof, M.D. 111 N. 49th St., Philadelphia 39, Pa. *Neurophysiologist, Pennsylvania Hospital; Asst. Prof., Univ. of Pennsylvania.* (**1,** 1950)

Thienes, Clinton H., M.D., Ph.D. Univ. of Southern California School of Medicine, Los Angeles. *Prof. and Head of Dept. of Pharmacology and Toxicology.* (**3,** 1928)

Thomas, Arthur W., Ph.D. Columbia Univ., New York City 27. *Prof. of Chemistry.* (**2,** 1924)

Thomas, Byron H., Ph.D. Iowa State College, Ames. *Prof. and Head of Animal Chemistry and Nutrition, Iowa Agric. Exper. Station.* (**5,** 1933)

Thomas, Caroline Bedell, M.D. Johns Hopkins Hospital, Baltimore, Md. *Assoc. Prof. of Medicine, Johns Hopkins Univ. School of Medicine.* (**1,** 1939)

Thomas, J. Earl, M.D. Jefferson Med. College, Philadelphia, Pa. *Prof. of Physiology.* (**1,** 1922; **3,** 1924)

Thomas, Lewis, M.D. Tulane Univ. Med. School, New Orleans, La. *Assoc. Prof. of Medicine.* (**6,** 1950)

Thompson, Marvin R., Ph.D. 67 Greenwich Ave., Stamford, Conn. (**3,** 1944)

Thompson, Randall L., Sc.D., M.D. Indiana Univ., Med. Center, Indianapolis 7. *Prof. of Bacteriology.* (**6,** 1937)

Thompson, William R., Ph.D. 1 Darroch Rd., Delmar, N. Y. *Sr. Biochemist, Div. of Labs. and Research, New York State Dept. of Health.* (**2,** 1934)

Thomson, David Landsborough, Ph.D. McGill Univ., Montreal, Quebec, Canada. *Prof. of Biochemistry and Dean of Faculty of Grad. Studies and Research.* (**2,** 1929)

Thorn, George Widmer, M.D. Peter Bent Brigham Hospital, Boston, Mass. *Prof. of Medicine, Harvard Univ.* (**1,** 1939)

Thorp, W. T. S., D.V.M., M.S. Natl. Insts. of Health, Bethesda, Md. *Chief, Section on Comparative Pathology and Hematology.* (**4,** 1948)

Tidwell, Herbert C., Ph.D. Southwestern Med.

School, 2211 Oak Lawn Ave., Dallas, Tex. *Prof. and Chairman of Dept. of Biochemistry.* (**2,** 1948)

Tillett, William S., M.D. New York Univ. College of Medicine, Dept. of Bacteriology, 477 First Ave., New York City. *Prof. of Medicine.* (**6,** 1927)

Tilt, Jennie, Ph.D. 1011 Lincoln Blvd., Santa Monica, Calif. (**5,** 1939)

Tipson, R. Stuart, Ph.D. Mellon Inst. of Industrial Research, Univ. of Pittsburgh, Pittsburgh, Pa. *Sr. Fellow, Dept. of Research in Pure Chemistry.* (**2,** 1937)

Tipton, Samuel R., Ph.D. Univ. of Tennessee, Dept. of Zoology, Knoxville. *Prof. of Zoology.* (**1,** 1940)

Tislow, Richard, M.D. Schering Corp., Bloomfield, N. J. *Dir. of Biological Labs.* (**1,** 1944; **3,** 1950)

Titus, Harry W., Ph.D. Lime Crest Research Lab., R.F.D. 1, Newton, N. J. *Technical Counsellor and Dir. of Nutritional Research.* (**2,** 1929; **5,** 1933)

Tobias, Julian M., M.D. Univ. of Chicago, Chicago, Ill. *Instr. in Physiology.* (**1,** 1944)

Tocantins, Leandro Maués, M.D. Jefferson Med. College, Philadelphia, Pa. *Assoc. Prof. of Medicine.* (**1,** 1939)

Todd, Wilbert R., Ph.D. Univ. of Oregon Med. School, Portland, Ore. *Assoc. Prof. of Biochemistry.* (**2,** 1948; **5,** 1948)

Todhunter, Elizabeth Neige, Ph.D. Univ. of Alabama, University. *Prof. of Nutrition.* (**5,** 1939)

Toennies, Gerrit, Ph.D. Inst. for Cancer Research and Lankenau Hospital Research Inst., Philadelphia 11, Pa. *Head, Dept. of General Biochemistry.* (**2,** 1934)

Tolle, Chester D., Ph.D. Federal Security Agency, Food and Drug Admin., Washington, D. C. *Sr. Biochemist.* (**5,** 1942)

Toman, James E. P., Ph.D. Abbott Laboratories, Pharmacological Labs., North Chicago, Ill. (**1,** 1945; **3,** 1950)

Tomarelli, Rudolph M., Ph.D. Wyeth, Inc., Nutritional Div., Mason, Ingham County, Mich. *Sr. Nutritional Investigator.* (**2,** 1950; **5,** 1950)

Tomlinson, Wray Joseph, M.D. 1017 E. 4th Ave., Mitchell, S. Dak. *Chief of Labs., St. Joseph and Methodist State Hospitals; Consulting Pathologist, St. Johns Hospital, Huron.* (**4,** 1945)

Tompkins, Edna H., M.D. Cancer Research Inst., New England Deaconess Hospital, 195 Pilgrim Rd., Boston 15, Mass. *Research Assoc.* (**4,** 1941)

Torda, Clara, Ph.D., M.D. Cornell Univ. Med. College, New York City. *Research Assoc. in Pharmacology.* (**1,** 1943; **3,** 1944)

Toth, Louis A., Ph.D. Louisiana State Univ. School of Medicine, Dept. of Physiology, New Orleans 13. *Assoc. Prof. of Physiology.* (**1,** 1940)

Totter, John R., Ph.D. Univ. of Arkansas School of Medicine, Little Rock. *Assoc. Prof., Dept. of Biochemistry.* (**2,** 1946)

Tourtellotte, Dee, D.Sc. Charles B. Knox Gelatin Co., 4th and Erie Sts., Camden, N. J. *Head of Nutrition Lab.* (**5,** 1935)

Tower, Sarah Sheldon, M.D., Ph.D. Johns Hopkins Univ., Baltimore, Md. *Asst. Prof. of Psychiatry.* (**1,** 1932)

Trager, William, M.D., Ph.D. Rockefeller Inst. for Med. Research, 66th and York Ave., New York City 21. *Associate.* (**4,** 1947)

Traub, Frederick B., M.D. 405 E. 72nd St., New York City 28. *Assoc. Bacteriologist, Jewish Hospital of Brooklyn.* (**6,** 1946)

Travell, Janet, M.D. Cornell Univ. Med. College, New York City. *Asst. Prof. of Clin. Pharmacology.* (**3,** 1933)

Travis, Lee Edward, Ph.D. Univ. of Southern California, Los Angeles. *Prof. of Psychology and Dir. of Psychological Center; Major, YAAF (Yuma, Ariz.).* (**1,** 1929)

Treadwell, Carleton R., Ph.D. George Washington Univ. School of Medicine, Dept. of Biochemistry, 1335 H St., N. W., Washington, D. C. *Assoc. Prof. of Biochemistry.* (**2,** 1944; **5,** 1949)

Treffers, Henry P., Ph.D. Yale Med. School, Dept. of Immunology, New Haven, Conn. *Assoc. Prof. of Immuno-chemistry.* (**6,** 1942)

Trimble, Harry C., Ph.D. Harvard Med. School, 25 Shattuck St., Boston, Mass. *Asst. Prof. of Biological Chemistry.* (**2,** 1929; **5,** 1936)

Trurnit, Hans Joachim, M.D. Med. Div., Army. Chemical Center, Md. *Research Biophysicist* (**1,** 1950)

Tuba, Jules, Ph.D. Univ. of Alberta, Dept. of Biochemistry, Edmonton, Alberta, Canada. *Assoc. Prof.* (**2,** 1950)

Tuft, Louis H., M.D. 1530 Locust St., Philadelphia, Pa. *Asst. Prof. of Medicine, Temple Univ. Med. School; Chief of Clinic of Allergy and Applied Immunology, Temple Univ. Hospital.* (**6,** 1928)

tum Suden, Caroline, Ph.D. Med. Div., Toxicology, Army Chemical Center, Md. (**1,** 1936)

Tunturi, Archie Robert, Ph.D. Univ. of Oregon Med. School, Portland. *Asst. Prof. of Anatomy.* (**1,** 1946)

Tuohy, Edward B., M.S., M.D. Georgetown Univ. Hospital, 3800 Reservoir Rd., Washington, D.C. *Prof. of Anesthesiology.* (**3,** 1941)

Turner, Abby H., Ph.D. Mount Holyoke College, South Hadley, Mass. *Prof. of Physiology.* (**1R,** 1928)

Tuttle, Waid Wright, Ph.D. State Univ. of Iowa, Iowa City. *Prof. of Physiology.* (**1,** 1925)

Tweedy, Wilbur R., Ph.D. Veterans Admin. Hospital, Radioisotope Unit, Hines, Ill. *Assoc. Director.* (**2,** 1931)

Tyler, Albert, Ph.D. California Inst. of Tech-

nology, Pasadena, Calif. *Assoc. Prof. of Embryology.* (**6,** 1946)

Tytell, Alfred A., Ph.D. Univ. of Cincinnati College of Medicine, Eden and Bethesda Aves. Cincinnati 19, Ohio. *Asst. Prof. of Biological Chemistry.* (**6,** 1950)

Tyler, David B., Ph.D. Carnegie Inst. of Washington, Dept. of Embryology, Wolfe and Madison Sts., Baltimore 5, Md. *Member of Staff.* (**1,** 1943)

Udenfriend, Sidney, Ph.D. Natl. Insts. of Health, Natl. Heart Inst., Dept. of Chemical Pharmacology, Bethesda 14, Md. *Biochemist.* (**2,** 1950)

Umbreit, Wayne W., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Asst. Dir.* (**2,** 1947)

Ungar, Georges, M.D., D.Sc. Rheumatic Fever Research Inst., 3026 S. California Ave., Chicago 8, Ill. *Research Assoc.* (**1,** 1950)

Unna, Klaus R. W., M.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago 12, Ill. *Assoc. Prof., Dept. of Pharmacology.* (**1,** 1941; **3,** 1944; **5,** 1942)

Upton, Morgan, Ph.D. Rutgers Univ., Dept. of Psychology, New Brunswick, N. J. (**1,** 1934)

Urban, Frank, Ph.D., M.D. 302 Northern Bldg., Green Bay, Wis. *Physician and Surgeon.* (**2,** 1932)

Utter, Merton F., Ph.D. Western Reserve Univ., Dept. of Biochemistry, Cleveland, Ohio. *Assoc. Prof. of Physiological Chemistry.* (**2,** 1946)

Vahlteich, Ella McCollum, Ph.D. 310 Walnut St., Englewood, N. J. (**5,** 1933)

Valle, J. R., M.D. Escola Paulista de Medicina, Caixa Postal 144-A, Sao Paulo, Brazil. *Prof. of Pharmacology.* (**3,** 1947)

Vander Brook, Milton J., Ph.D. The Upjohn Co., Kalamazoo 99, Mich. *Pharmacologist.* (**3,** 1950)

Vanderscheer, James, Ch. E. 136 Linwood Ave., Ridgewood, N. J. *Research Chemist, Lederle Labs.* (**6,** 1946)

Van Dyke, H. B., Ph.D., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St. New York City 32. *Hosack Prof. of Pharmacology.* (**1,** 1925; **3,** 1927)

van Harreveld, Anthonie, M.A., M.D. California Inst. of Technology, Pasadena. *Prof. of Physiology.* (**1,** 1941)

Van Liere, Edward J., M.D., Ph.D. West Virginia Univ. School of Medicine, Morgantown. *Prof. of Physiology and Dean.* (**1,** 1927)

Van Middlesworth, Lester, Ph.D. Univ. of Tennessee, Memphis. *Instr. in Physiology.* (**1,** 1948)

Van Slyke, Donald D., Ph.D., M.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Asst. Dir., Depts. of Biology and Med. Sciences; Member Emeritus, Rockefeller Inst.* (**2,** 1908)

van Wagenen, Gertrude, Ph.D. Yale Univ. School of Medicine, New Haven, Conn. *Assoc. Prof.* (**1,** 1932)

van Wagtendonk, Willem J., Ph.D. Indiana Univ., Dept. of Zoology, Bloomington. *Assoc. Prof.* (**2,** 1946)

Van Winkle, Walton, Jr., M.D. American Med. Assoc., 535 N. Dearborn St., Chicago 10, Ill. *Sec'y., Therapeutic Trials Committee.* (**3,** 1939)

Varney, Philip L. Washington Univ. School of Medicine, St. Louis, Mo. *Asst. Prof. of Bacteriology.* (**6,** 1948)

Vars, Harry M., Ph.D. Univ. of Pennsylvania Med. School, Harrison Dept. of Surgical Research, Philadelphia. *Assoc. Prof. of Physiological Chemistry.* (**2,** 1935; **5,** 1935)

Velick, Sidney Frederick. Washington Univ. School of Medicine, Dept. of Biochemistry, Euclid Ave. and Kingshighway, St. Louis 10, Mo. *Asst. Prof. of Biochemistry.* (**2,** 1946)

Vennesland, Birgit, Ph.D. Univ. of Chicago, Dept. of Biochemistry, Chicago, Ill. *Assoc. Prof.* (**2,** 1944)

Venning, Eleanor H., Ph.D. Univ. Clinic, Royal Victoria Hospital, Pine Ave., Montreal, Quebec, Canada. *Asst. Prof. of Medicine, McGill Univ.* (**2,** 1938)

Vestling, Carl Swensson, Ph.D. Univ. of Illinois, Noyes Lab., Urbana, Ill. *Asst. Prof. of Biochemistry.* (**2,** 1946)

Vickery, Hubert B., Ph.D. Connecticut Agric. Exper. Station, New Haven. *Biochemist in Charge, Dept. of Biochemistry; Lecturer in Physiological Chemistry, Yale Univ.* (**2,** 1923)

Victor, Joseph, M.D. Camp Detrick, Frederick, Md. *Chief, Pathology Branch.* (**4,** 1935)

Villee, Claude A., Jr., Ph.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Asst. Prof. of Biological Chemistry.* (**2,** 1948)

Virtue Robert W., Ph.D., M.D. Denver General Hospital, Denver 4, Colo. *Anesthesiologist.* (**2,** 1939)

Visscher, Frank E., Ph.D. Upjohn Co., Kalamazoo 99, Mich. *Research Scientist, Dept. of Pharmacology and Endocrinology.* (**1,** 1947)

Visscher, Maurice B., Ph.D., M.D. Univ. of Minnesota, Minneapolis. *Prof. and Head of Dept. of Physiology.* (**1,** 1927)

Voegtlin, Carl, Ph.D. Univ. of Rochester Med. School, Rochester, N. Y. *Lecturer in Pharmacology.* (**1R,** 1908; **2,** 1908; **3,** 1908)

von Haam, Emmerich, M.D. Ohio State Univ., Columbus. *Prof. of Pathology.* (**4,** 1938)

Von Oettingen, W. F., M.D., Ph.D. Natl. Insts. of Health, Lab. of Physical Biology, Exper. Biology and Medicine Inst., Bethesda, Md. *Med. Officer, Toxicology.* (**3,** 1925)

Voris, LeRoy, Ph.D. Natl. Research Council, 2101 Constitution Ave., Washington 25, D. C. *Exec. Sec., Food and Nutrition Board.* (**5,** 1949)

Vorwald, Arthur J., Ph.D., M.D. Saranac Lake,

N. Y. *Dir., Edward L. Trudeau Foundation and Saranac Lab.* (**4,** 1937)

Vos, Bert J., Ph.D., M.D. Food and Drug Admin., Div. of Pharmacology, Washington, D. C. *Pharmacologist.* (**3,** 1941)

Wachstein, Max, M.D. St. Catherine's Hospital, Brooklyn, N. Y. *Dir. of Lab.; Research Asst., Mt. Sinai Hospital.* (**4,** 1947)

Waddell, James, Ph.D. E. I. duPont de Nemours & Co., New Brunswick, N. J. *Dir. of Biological Lab.* (**2,** 1930; **5,** 1935)

Wadsworth, Augustus B., M.D. Manchester, Vt. (**4,** 1935; **6,** 1920)

Waelsch, Heinrich, M.D., Ph.D. 722 West 168th St., New York City 32. *Assoc. Research Biochemist, N. Y. State Psychiatric Inst. and Hospital; Assoc. Prof. of Biochemistry, Columbia Univ.* (**2,** 1941)

Wagman, Irving H., Ph.D. Jefferson Med. College, Dept. of Physiology, Philadelphia 7, Pa. *Asst. Prof. of Physiology.* (**1,** 1946)

Wainio, Walter W., Ph.D. Rutgers Univ., Bureau of Biological Research, Box 515, New Brunswick, N. J. *Assoc. Research Specialist.* (**2,** 1950)

Waisman, Harry A., M.D., Ph.D. Univ. of Illinois Med. School, 1819 W. Polk St., Chicago 12. *Asst. Prof. of Pediatrics.* (**2,** 1944)

Wakeman, Alfred J., Ph.D. Hatfield Hill Rd., Bethany, Conn. *Retired.* (**2,** 1906)

Wakerlin, George E., Ph.D., M.D. Univ. of Illinois Med. School, 1853 W. Polk St., Chicago. *Prof. and Head of Dept. of Physiology.* (**1,** 1933; **3,** 1934)

Wakim, Khalil G., M.D., Ph.D. Mayo Clinic, Rochester, Minn. *Consultant; Prof. of Physiology, Mayo Foundation.* (**1,** 1942)

Waksman, Byron H., M.D. 52 Phillips St., Boston 14, Mass. *Research Fellow, Massachusetts General Hospital; Teaching appointment, Harvard Med. School.* (**6,** 1950)

Walcott, William W., Ph.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Physiology, New York City 32. *Instructor.* (**1,** 1947)

Wald, George, Ph.D. Harvard Univ., Biological Labs., Cambridge, Mass. (**1,** 1934; **2,** 1950)

Walker, A. Earl, M.D. 601 N. Broadway, Baltimore 5, Md. *Prof. of Neural Surgery, The Johns Hopkins Univ.* (**1,** 1950)

Walker, Arthur M., M.D. Veterans Admin., Washington 25, D. C. (**1,** 1932; **3,** 1939)

Walker, Burnham S., Ph.D., M.D. Boston Univ. School of Medicine, 80 E. Concord St., Boston, Mass. *Prof. of Biochemistry.* (**2,** 1940)

Walker, Ernest Linwood, Sc.D. 50 Winchester Dr., Menlo Pk., Calif. (**3R,** 1931)

Walker, Harry A., Ph.D. Emory Univ. School of Medicine, Emory University, Ga. *Asst. Prof. of Pharmacology.* (**3,** 1948)

Walker, Sheppard M., Ph.D. Univ. of Louisville School of Medicine, 101 W. Chestnut St., Louisville, Ky. *Asst. Prof. of Physiology.* (**1,** 1946)

Wallen-Lawrence, Zonja, Ph.D. 4534 W. Pine Blvd., St. Louis 8, Mo. (**2,** 1937)

Walter, Annabel W. 29 Perry St., New York City 14. *Bacteriologist, New York City Dept. of Health, Bureau of Labs.* (**6,** 1946)

Walter, Carl W., M.D. Harvard Med. School, 25 Shattuck Street, Boston, Mass. *Asst. Clin. Prof. of Surgery; Sr. Assoc. in Surgery, Peter Bent Brigham Hosp.* (**4,** 1942)

Walters, Orville S., Ph.D., M.D. McPherson, Kan. *Physician.* (**1,** 1936)

Walton, Robert P., Ph.D., M.D. Med. College of the State of South Carolina, Charleston. *Prof. of Pharmacology.* (**3,** 1933)

Walton, Seth T., V.M.D., Ph.D. Lab., Veterans Hospital, Oteen, N. C. *Dir. of Labs. and Research.* (**6,** 1936)

Walzer, Matthew, M.D. 20 Plaza St., Brooklyn, N. Y. *Attending in Allergy, Jewish Hospital of Brooklyn.* (**6,** 1924)

Wang, Chi Che, Ph.D. U. S. Veterans Admin. Hospital, Hines, Ill. *Research Biochemist in charge of Metabolic Lab.; Assoc. Prof. of Dept. of Exper. Medicine, Northwestern Univ. Med. School, Chicago, Ill.* (**2,** 1922; **5,** 1933)

Wang, Shih-Chun, M.D., Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Physiology.* (**1,** 1943)

Wangeman, Clayton P., M.D. Broadway Med. Center, Associated Anesthesiologists, Seattle, Washington. (**3,** 1946)

Wangensteen, Owen Harding, M.D. Univ. Hospital, Minneapolis 14, Minn. *Prof. of Surgery, Univ. of Minnesota.* (**1,** 1947; **4,** 1931)

Ward, Arthur A., Jr., M.D. Univ. of Washington, School of Medicine, Div. of Neurosurgery, Seattle. *Asst. Prof. of Surgery; Head of Div.* (**1,** 1949)

Ward, Walter E., Ph.D., M.D. Cutter Labs. Fourth and Parker Sts., Berkeley 1, Calif. *Assoc. Med. Dir.* (**6,** 1947)

Ware, Arnold G., Ph.D. Los Angeles County Hospital, Main Lab., 1200 N. State St., Los Angeles 33, Calif. *Head Chemist; Asst. Prof. of Biochemistry, Univ. of Southern California.* (**2,** 1949)

Warner, Emory D., M.D. Med. Labs. Bldg., Iowa City, Ia. *Prof. of Pathology.* (**4,** 1937)

Warner, Robert C., Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Asst. Prof. of Chemistry.* (**2,** 1946)

Warren, James V., M.D. Emory Univ. School of Medicine, Atlanta, Ga. *Prof. of Physiology; Assoc. Prof. of Medicine.* (**1,** 1947)

Warren, Joel. 7415 Lynnhurst St., Chevy Chase, Md. *Chief, Virus Research Section, Army Med. Dept. Research and Grad. School.* (**6,** 1949)

Warren, Marshall R., Ph.D. Univ. of Tennessee College of Medicine, Memphis. *Assoc. Prof. of Pharmacology.* (**3,** 1948)

Warren, Shields, M.D. 195 Pilgrim Rd., Boston, Mass. *Prof. of Pathology, Harvard Med. School; Dir., Div. of Biology and Medicine, USAEC.* (**4,** 1929)

Wartman, William Bechmann, M.D. Northwestern Univ., 303 East Chicago Ave., Chicago 11, Ill. *Morrison Prof. and Chairman of Dept. of Pathology.* (**4,** 1940)

Wasteneys, Hardolph, Ph.D. Univ. of Toronto, Toronto, Ontario, Canada. *Prof. and Head of Dept. of Biochemistry.* (**2,** 1915)

Waterman, Robert E., B.S. Schering Corp., 86 Orange St., Bloomfield, N. J. *Vice-Pres.* (**2,** 1940)

Waters, Ralph Milton, M.D. R. R. #3, Box 456, Orlando, Fla. (**3,** 1937)

Watson, Cecil J., M.D., Ph.D. University Hospital, Dept. of Medicine, Minneapolis, Minn. *Prof. and Head of Dept. of Medicine.* (**4,** 1941)

Watson, Dennis W. Univ. of Minnesota Med. School, Dept. of Bacteriology and Immunology, Minneapolis. *Assoc. Prof.* (**6,** 1949)

Watson, John B., Ph.D. Box 526, Westport, Conn. (**1,** 1907)

Watts, Daniel T., Ph.D. Univ. of Virginia Med. School, Dept. of Pharmacology, Charlottesville. *Assoc. Prof. of Pharmacology.* (**3,** 1950)

Waud, Russell A., M.D., Ph.D. Univ. of Western Ontario Med. School, London, Ontario, Canada. *Prof. and Head of Dept. of Pharmacology.* (**3,** 1931)

Waugh, David F., Ph.D. Massachusetts Inst. of Technology, Dept. of Biology and Biological Engineering, Cambridge. *Asst. Prof. of Physical Biology.* (**1,** 1943)

Way, E. Leong, Ph.D. Univ. of California Med. Center, San Francisco, Calif. *Asst. Prof. of Pharmacology.* (**3,** 1947)

Wearn, Joseph T., M.D. Lakeside Hospital, Cleveland, Ohio. *Dir. of Medicine; Prof. of Medicine, Western Reserve Univ.* (**1,** 1921)

Weatherby, J. H., Ph.D. Med. College of Virginia, Dept. of Physiology and Pharmacology, Richmond, Va. *Assoc. Prof. of Pharmacology.* (**3,** 1941)

Weber, Clarence J., M.D., Ph.D. 5641 Tahoe Lane, Kansas City 3, Kans. *Chief, Lab. Service, V. A. Hospital, Wadsworth.* (**2,** 1931)

Webster, Bruce, M.D., C.M. Cornell Univ. Med. College, 1300 York Ave., New York City. *Asst. Prof. of Medicine; Assoc. Attending Physician, New York Hospital.* (**5,** 1935)

Weed, Lewis H., M.D., Ph.D. Natl. Research Council, 2101 Constitution Ave., Washington, D. C. (**1R,** 1919)

Wégria, René, M.D. Presbyterian Hospital, Dept. of Medicine, 622 W. 168th St., New York City. *Asst. Prof. of Medicine.* (**1,** 1941; **3,** 1950)

Weichert, Charles K., Ph.D. Univ. of Cincinnati, Cincinnati, Ohio. *Prof. of Zoology.* (**1,** 1935)

Weichselbaum, Theodore E., Ph.D. Washington Univ. School of Medicine, Dept. of Surgery, 4580 Scott Ave., St. Louis 10, Mo. *Research Assoc.* (**2,** 1950)

Weil, Alfred J., M.D. The Bronx Hospital, New York City. *Dir. of Dept. of Bacteriology.* (**6,** 1940)

Weil, Arthur, M.D. 952 5th Ave., New York City. (**4,** 1940)

Weil, Leopold, Ph.D. U. S. Dept. of Agriculture, Eastern Regional Research Lab., Chestnut Hill Station, Philadelphia 18, Pa. *Chemist.* (**2,** 1942)

Weil, Marvin Lee, M.D. Army Med. Dept. Research and Grad. School, Army Med. Center, Washington, D. C. *Captain, Med. Corps.* (**6,** 1950)

Weinhouse, Sidney, Ph.D. Lankenau Hospital Research Inst., Fox Chase, Philadelphia 11, Pa. *Head, Metabolic Chemistry.* (**2,** 1948)

Weir, Everett G., Ph.D. 231 S. 13th Ave., Maywood, Ill. (**1,** 1941)

Weiser, Russell S., Ph.D. Univ. of Washington School of Medicine, Seattle 5, Washington. *Assoc. Prof. of Microbiology.* (**6,** 1948)

Weiss, Charles, Ph.D., M.D. Jewish Hospital, York and Tabor Rds., Philadelphia, Pa. *Dir. of Labs.* (**4,** 1934; **6,** 1920)

Weiss, Emil, M.D., Ph.D. 5036 Bernard St., Chicago, Ill. *Pathologist, People's Hospital.* (**6,** 1927)

Weiss, Paul, Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Zoology.* (**1,** 1936)

Welch, Arnold D., Ph.D., M.D. Western Reserve Univ. School of Medicine, Cleveland, Ohio. *Prof. and Dir. of Dept. of Pharmacology.* (**2,** 1950; **3,** 1942; **5,** 1944)

Welch, Henry, Ph.D. U. S. Food and Drug Admin., Rm. 6171 S. Agriculture Bldg., Washington, D. C., *Chief of Div. of Penicillin Control and Immunology.* (**6,** 1932)

Weld, Charles Beecher, M.A., M.D. Dalhousie Univ., Halifax, N.S., Canada. *Prof. of Physiology.* (**1,** 1936)

Weld, Mrs. Julia T. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City. *Research Assoc. in Pathology.* (**6,** 1920)

Welker, William H., Ph.D. 534 N. Elmwood Ave., Oak Park, Ill. *Prof. Emeritus of Biological Chemistry, Univ. of Illinois College of Medicine.* (**2,** 1906)

Weller, Carl Vernon, M.D. 1130 Fair Oaks Parkway, Ann Arbor, Mich. *Prof. and Chairman of Dept. of Pathology, Univ. of Michigan,* (**4,** 1923)

Wells, Herbert S., M.D. Univ. of Minnesota, Minneapolis 14. *Prof. of Clin. Physiology.* (**1,** 1932)

Wells, Joseph Albert, M.D., Ph.D. Northwestern Univ. Med. School, Chicago, Ill. *Assoc. Prof. of Pharmacology.* (**3,** 1944)

Welsh, John H., Ph.D. Harvard Univ., Biological Labs., 16 Divinity Ave., Cambridge 38, Mass. *Assoc. Prof. of Zoology.* (**1,** 1945)

Wendel, William B., Ph.D. Tulane Univ. School of Medicine, 6501 St. Charles Ave., New Orleans 15, La. *Prof. and Head of Dept. of Biochemistry.* (**2,** 1932)

Werber, Erna A., Ph.D. 44 W. 83rd St., New York City. *Dir. of Research Lab., Jewish Hospital of Brooklyn.* (**6,** 1948)

Werkman, C. H., Ph.D. Iowa State College, Science Hall, Ames. *Prof. and Head of Dept. of Bacteriology.* (**2,** 1942)

Werle, Jacob M., M.D. 2000 W. 25th St., Cleveland 13, Ohio. *Surgeon.* (**1,** 1943)

Werner, Harold W., Ph.D. The Wm. S. Merrell Co., Lockland Station, Cincinnati, Ohio. *Dir. Pharmacology Research.* (**3,** 1942)

Wertenberger, Grace E., Ph.D. Univ. of Indiana, Dept. of Physiology, Bloomington. (**1,** 1943)

Werthessen, Nicholas T., Ph.D. Shrewsbury, Mass. Worcester Foundation for Exper. Biology. *Sr. Fellow.* (**1,** 1946)

Wertz, Anne W., Ph.D. Univ. of Massachusetts, Nutrition Research Labs., Home Economics Dept., Amherst. *Prof., Research, Home Economics Nutrition.* (**5,** 1950)

Wescoe, W. Clarke, M.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Asst. Prof. of Pharmacology.* (**3,** 1949)

Wesson, Laurence G., Ph.D. Forsyth Dental Infirmary, Boston, Mass. *Research Biochemist.* (**2,** 1929; **3,** 1932)

Wesson, Laurence G., Jr., Ph.D. New York Univ. College of Medicine, Dept. of Physiology, New York City 16. *Asst. Prof.* (**1,** 1949)

West, Edward S., Ph.D. Univ. of Oregon Med. School, Portland. *Prof. of Biochemistry.* (**2,** 1925)

West, Harold D., Ph.D. Meharry Med. College, Nashville 8, Tenn. *Prof. and Head of Dept. of Biochemistry.* (**2,** 1946)

Westerfeld, Wilfred Wiedey, Ph.D. State Univ. of New York, Med. Center at Syracuse Univ., Syracuse 10, N. Y. *Prof. of Biochemistry.* (**2,** 1944)

Westfall, B. A., Ph.D. Univ. of Missouri School of Medicine, Dept. of Physiology and Pharmacology, Columbia. *Prof. of Pharmacology.* (**1,** 1949; **3,** 1950)

Weston, Raymond E., M.D., Ph.D. Montefiore Hospital, Med. Div., New York City 67. *Asst. in Medicine.* (**1,** 1947)

Weymouth, Frank W., Ph.D. Stanford Univ., Calif. *Prof. and Exec. of Dept. of Physiology.* (**1R,** 1917)

Wheeler, Albert H., M.S., M.S.P.H., Dr.P.H. Univ. of Michigan Hospital, Serology Lab., Ann Arbor. *Research Assoc.* (**6,** 1950)

Wheeler, George W., M.D. New York Hospital, 525 E. 68th St., New York City. *Asst. Dir.* (**6,** 1920)

Wheeler, Mary W., M.A. New York State Dept. of Health, Div. of Labs. and Research, Albany. *Assoc. Bacteriologist.* (**6,** 1933)

Wheelon, Homer, M.S., M.D. Univ. of Washington, Seattle, Wash. *Prof. of Medicine.* (**1,** 1919)

Whipple, George H., M.D., Sc.D. Univ. of Rochester, Rochester, N. Y. *Prof. of Pathology and Dean of School of Medicine and Dentistry.* (**1,** 1911; **4,** 1913)

White, Abraham, Ph.D. Univ. of California School of Medicine, Los Angeles 24. *Prof. and Chairman of Dept. of Physiological Chemistry.* (**2,** 1934; **5,** 1937)

White, Alan G. C., Ph.D. Tulane Univ., Dept. of Biochemistry, New Orleans, La. *Asst. Prof. of Biochemistry.* (**2,** 1949)

White, Colin, B.S. Med. School, Hospital Centre, Dept. of Physiology, Birmingham 15, England. (**1,** 1949)

White, Florence R., Ph.D. % Dr. Julius White, Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Biochemist.* (**2,** 1946)

White, Frank D., Ph.D. Univ. of Manitoba, Faculty of Medicine, Bannatyne Ave., Winnepeg, Manitoba, Canada. *Prof. of Biochemistry; Biochemist, Winnipeg General Hsopital.* (**2,** 1931)

White, Harvey Lester, M.D. Washington Univ. Med. School, St. Louis 10, Mo. *Prof. of Physiology.* (**1,** 1923)

White, Julius, Ph.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Head Chemist.* (**2,** 1937)

White, Paul Dudley, M.D. Massachusetts General Hospital, Boston, Mass. *Physician (in charge of Cardiac Clinics and Lab.); Lecturer in Medicine, Harvard Med. School.* (**3,** 1921)

Whitehead, Richard W., M.A., M.D. Univ. of Colorado School of Medicine, 4200 E. Ninth Ave., Denver. *Prof. of Physiology and Pharmacology.* (**1,** 1933; **3,** 1928)

Whitehorn, William V., M.D. Univ. of Illinois College of Medicine, Chicago. *Asst. Prof. of Applied Physiology.* (**1,** 1947)

Whittenberger, James L., M.D. Harvard School of Public Health, Dept. of Physiology, 55 Shattuck St., Boston 15, Mass. *Asst. Prof. and Head of Dept. of Physiology.* (**1,** 1949)

Wiener, Alexander S., M.D. 64 Rutland Rd., Brooklyn, N. Y. *Bacteriologist and Serologist to Office of Chief Med. Examiner of New York*

City; Head of Transfusion Div., Jewish Hospital of Brooklyn. (**6,** 1932)

Wiercinski, Floyd J., Ph.D. Hahnemann Med. College, 235 N. 15th St., Philadelphia, Pa. *Asst. Prof. in Physiology.* (**1,** 1950)

Wiersma, Cornelis A. G., Ph.D. California Inst. of Technology, Pasadena. *Assoc. Prof. of Physiology.* (**1,** 1941)

Wiese, Alvin C., Ph.D. Univ. of Idaho, Dept. of Agricultural Chemistry, Moscow. *Prof. and Head of Dept.* (**5,** 1950)

Wiggers, Carl J., M.D., Sc.D. Western Reserve Univ. Med. School, Cleveland, Ohio. *Prof. and Dir. of Physiology.* (**1,** 1907; **3R,** 1909)

Wiggers, Harold C., Ph.D. Union Univ., Albany Med. College, Dept. of Physiology and Pharmacology, Albany 3, N. Y. *Prof. and Chairman of Dept.* (**1,** 1938)

Wigodsky, Herman S., Ph.D., M.D. 420 E. Houston St., San Antonio 5, Tex. (**1,** 1943)

Wikler, Abraham, M.D. USPHS Hospital, Lexington, Ky. *Sr. Surgeon (R)* (**3,** 1944)

Wilber, Charles G., Ph.D. St. Louis Univ., 1402 S. Grand Blvd., St. Louis 4, Mo. *Dir. of Biological Labs.* (**1,** 1947)

Wilde, Walter S., Ph.D. Tulane Univ. School of Medicine, Station 20, New Orleans, La. *Assoc. Prof. of Physiology.* (**1,** 1944)

Wilder, Russell M., Ph.D., M.D. Mayo Clinic, Rochester, Minn. *Prof. of Medicine, Mayo Foundation, Univ. of Minnesota.* (**1,** 1921; **4R,** 1924; **5,** 1933)

Wiley, Frank H., Ph.D. Federal Security Agency, Food and Drug Admin., Washington 25, D. C. *Chief, Div. of Pharmaceutical Chemistry.* (**2,** 1933)

Wilhelmi, Alfred E., Ph.D. Emory Univ. School of Medicine, Emory Univ., Ga. *Prof. of Biochemistry.* (**2,** 1942)

Wilhelmj, Charles Martel, M.D. Creighton Univ. School of Medicine, Omaha, Neb. *Prof. of Physiology.* (**1,** 1931)

Wilkerson, Vernon A., M.D., Ph.D. Med. Arts Bldg., 61 K St., N.W., Washington, D. C. *Biochemical Consultant.* (**2,** 1936)

Williams, Carroll M., Ph.D., M.D. Harvard Univ., Biological Labs., Cambridge, Mass. *Asst. Prof. of Zoology.* (**1,** 1947)

Williams, Harold H., Ph.D. Cornell Univ., Fernow Hall, Ithaca, N. Y. *Prof. of Biochemistry.* (**2,** 1938; **5,** 1936)

Williams, Horatio B., M.D., Sc.D. Box 893, Greenwich, Conn. *Dalton Prof. Emeritus of Physiology, Columbia Univ.* (**1,** 1912)

Williams, J. W., Ph.D. Univ. of Wisconsin, Chemistry Bldg., Madison. *Prof. of Chemistry.* (**2,** 1944)

Williams, Ray D., M.S., M.D. 6834 Waterman St., St. Louis, Mo. *Asst. Prof. of Clin. Medicine, Washington Univ.* (**5,** 1941)

Williams, Robert Hardin, M.D. Univ. of Washington, Dept. of Medicine, Seattle. *Prof. and Exec. Officer.* (**4,** 1940)

Williams, Robert R., D.Sc. 297 Summit Ave., Summit, N. J. *Dir. of Grants, Research Corp.* (**2,** 1919; **5,** 1941)

Williams, Roger J., Ph.D. Univ. of Texas, Dept. of Chemistry, Austin. *Prof. of Chemistry; Dir. of Biochemical Inst.* (**2,** 1931)

Williams, W. Lane, Ph.D. Univ. of Minnesota Med. School, Minneapolis 14. *Assoc. Prof. of Anatomy.* (**1, 4,** 1947)

Wills, J. H., Ph.D. Med. Div., Pharmacology Section, Army Chemical Center, Md. (**1,** 1943)

Wilson, Armine T. Alfred I. DuPont Inst., Wilmington 99, Del. *Chief Bacteriologist; Pediatrician-in-Chief.* (**6,** 1949)

Wilson, David Wright, Ph.D. Univ. of Pennsylvania Med. School, Philadelphia. *Benjamin Rush Prof. of Physiological Chemistry.* (**1,** 1915; **2,** 1915)

Wilson, Eva D., Ph.D. 256 E. Irvin Ave., State College, Pa. (**5,** 1947)

Wilson, Frank N., M.D. Univ. Hospital, Ann Arbor, Mich. *Prof. of Medicine, Univ. of Michigan.* (**4,** 1925)

Wilson, J. Walter, Ph.D. Brown Univ., Dept. of Biology, Providence 12, R. I. *Chairman of Dept. of Biology; F. L. Day Prof. of Biology.* (**1,** 1949; **4,** 1950)

Wilson, John W., Ph.D. Wright-Patterson Air Force, Aero-Med. Lab., Dayton, Ohio. *Research Physiologist.* (**1,** 1948)

Wilson, Karl M., M.D. Univ. of Rochester School of Medicine, Rochester, N. Y. *Prof. of Obstetrics and Gynecology.* (**4,** 1927)

Wilson, P. W., Ph.D. Univ. of Wisconsin, Dept. of Agricultural Bacteriology, Madison. *Prof. of Agricultural Bacteriology.* (**2,** 1939)

Wilson, Robert H., Ph.D. U. S. Dept. of Agriculture, Western Regional Research Lab., 800 Buchanan St., Albany, Calif. *Sr. Pharmacologist.* (**3,** 1937)

Winder, Claude V., Sc.D. Parke Davis and Co., Detroit, Mich. *Research Pharmacologist.* (**1,** 1938; **3,** 1948)

Windle, William Frederick, Ph.D. Univ. of Pennsylvania Med. School, Philadelphia. *Prof. of Anatomy.* (**1,** 1937)

Winkenwerder, Walter LaF., M.D. 1014 St. Paul St., Baltimore, Md. *Assoc. in Medicine, Johns Hopkins Med. School.* (**6,** 1938)

Winnick, Theodore, Ph.D. Univ. of Iowa Med. School, Iowa City. *Assoc. Prof. of Biochemistry, Radiation Research Lab.* (**2,** 1946)

Winter, Charles A., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Research Assoc.* (**1,** 1940)

Winter, Irwin Clinton, Ph.D., M.D. G. D. Searle

and Co., P. O. Box 5110, Chicago 80, Ill. *Dir. of Clin. Research.* (**3,** 1941)

Winternitz, M. C., M.D. Natl. Research Council, 2101 Constitution Ave., Washington 25, D. C. *Chairman, Div. of Med. Sciences.* (**4,** 1913)

Wintersteiner, Oskar, Ph.D. Squibb Inst. for Med. Research, New Brunswick, N. J. *Member, Head, Div. of Organic Chemistry.* (**2,** 1930)

Wintrobe, Maxwell Myer, M.D., Ph.D. 175 E. 21st St., S., Salt Lake City 15, Utah. *Prof. and Head, Dept. of Internal Medicine, Univ. of Utah College of Medicine; Physician-in-Chief, Salt Lake County General Hospital.* (**4,** 1940)

Winzler, Richard J., Ph.D. Univ. of Southern California Med. School, Dept. of Biochemistry, Los Angeles 7. *Professor.* (**2,** 1946)

Wiseman, Bruce Kenneth, M.D. Ohio State Univ., Kinsman Hall, Columbus. *Prof. and Chairman of Dept. of Medicine; Asst. Dir. of Med. Research.* (**4,** 1932)

Wislocki, George B., M.D. Harvard Univ. Med. School, 25 Shattuck St., Boston, Mass. *Parkman Prof. of Anatomy.* (**1,** 1924)

Wissler, Robert W., M.D., Ph.D. Albert Merritt Billings Hospital, 950 E. 59th St., Chicago 37, Ill. *Asst. Prof. of Pathology, Univ. of Chicago.* (**4,** 1949)

Witebsky, Ernest, M.D. Buffalo General Hospital, 100 High St., Buffalo, N. Y. *Prof. and Head of Dept. of Bacteriology and Immunology.* (**6,** 1935)

Wittich, Fred W., M.D. 401 LaSalle Med. Bldg., Minneapolis 2, Minn. *Sec.-Treas. of American College of Allergists; Chairman of Exec. Committee, International Assoc. of Allergists.* (**6,** 1944)

Wolbach, S. Burt, M.D. Children's Hospital, Boston, Mass. *Shattuck Prof. Emeritus of Pathological Anatomy, Harvard Med. School; Dir. of Nutritional Research, Children's Hospital.* (**4,** prior to 1920)

Wolf, Abner, M.D. Columbia Univ. College of Physicians and Surgeons, New York City 32. *Assoc. Prof. of Neuropathology.* (**4,** 1948)

Wolf, Arnold Veryl, Ph.D. Union Univ., Albany Med. College, Albany, N. Y. *Assoc. Prof. of Physiology.* (**1,** 1946)

Wolf, Stewart, M.D. Cornell Univ. Med. College, New York City. *Asst. Prof. of Medicine.* (**1,** 1948)

Wolff, Harold G., M.D., M.A. New York Hospital, 525 E. 68th St., New York City. *Assoc. Prof. of Medicine, Cornell Univ. Med. College; Assoc. Attending Physician, New York Hospital.* (**1,** 1930; **3,** 1942)

Wolff, William A., Ph.D. Wake Forest College, Bowman Gray School of Medicine, Winston-Salem 7, N. C. *Asst. Prof. of Biochemistry.* (**2,** 1947)

Womack, Madelyn, Ph.D. U. S. Dept. of Agriculture, Agricultural Research Admin., Foods and Nutrition Div., Washington 25, D. C. *Biochemist.* (**5,** 1947)

Wood, Earl H., Ph.D., M.D. Mayo Foundation, Rochester, Minn. *Assoc. Prof. of Physiology, Grad. School, Univ. of Minnesota; Consultant in Physiology, Mayo Clinic.* (**1,** 1943; **3,** 1949)

Wood, Harland G., Ph.D. Western Reserve Univ., Dept. of Biochemistry, Cleveland 6, Ohio. *Prof. of Biochemistry.* (**2,** 1944)

Wood, Horatio C., Jr., M.D., Ph.M. 319 S. 41st St., Philadelphia 4, Pa. *Prof. of Pharmacology, Philadelphia College of Pharmacy and Science.* (**3R,** 1908)

Wood, John L., Ph.D. Univ. of Tennessee School of Biological Sciences, 875 Monroe Ave., Memphis 3. *Assoc. Prof. of Chemistry.* (**2,** 1947)

Woodbury, Robert A., Ph.D., M.D. Univ. of Tennessee, Dept. of Pharmacology, Memphis. *Prof. and Chief of Div. of Pharmacology.* (**1,** 1936; **3,** 1941)

Woods, Alan C., M.D. Johns Hopkins Hospital, Wilmer Ophthalmological Inst., Baltimore, Md. *Dir. of Inst. and Ophthalmologist-in-Chief; Acting Prof. of Ophthalmology, Johns Hopkins Univ.* (**6,** 1918)

Woods, Ella, Ph.D. Univ. of Idaho, Moscow. *Home Economist, Exper. Station.* (**2,** 1925; **5,** 1933)

Woods, Lauren A., M.D., Ph.D. Univ. of Michigan, Dept. of Pharmacology, Ann Arbor. *Asst. Prof.* (**3,** 1949)

Woodward, Alvalyn E., Ph.D. Univ. of Michigan, Ann Arbor. *Asst. Prof. of Zoology.* (**1,** 1932)

Woodyatt, Rollin T., M.D. 237 E. Delaware Place, Chicago, Ill. *Prof. of Medicine, Rush Med. College, Univ. of Chicago.* (**2,** 1912)

Wooley, Jerald G. Natl. Insts. of Health, Exper. Biology and Medicine Inst., Bethesda, Md. *Sr. Biologist.* (**6,** 1949)

Woolley, D. Wayne, Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Member.* (**2,** 1946; **5,** 1941)

Woolpert, Oram C., M.D., Ph.D. Camp Detrick, Frederick, Md. *Tech. Dir. of Biological Div., Chemical Corps.* (**6,** 1947)

Woolsey, Clinton N., M.D. Univ. of Wisconsin, Service Memorial Insts., Madison. *Charles Sumner Slichter Research Prof. of Neurophysiology.* (**1,** 1938)

Wortis, S. Bernard, M.D. New York Univ. College of Medicine, Dept. of Psychiatry, New York City 16. *Prof. and Chairman of Dept. of Psychiatry; Dir. of Psychiatric Div. of Bellevue Hospital.* (**1,** 1947)

Wright, Angus, M.D. Univ. of Southern California Med. School, 657 S. Westlake Ave., Los Angeles. *Pathologist, California Hospital.* (**4,** 1935)

Wright, Arthur W., M.D. Albany Med. College, New Scotland Ave., Albany, N. Y. *Prof. of Pathology and Bacteriology.* (**4,** 1941)

Wright, Charles Ingham, Ph.D. Natl. Insts. of of Health, Bethesda, Md. *Sr. Pharmacologist, USPHS.* **(1,** 1935; **3,** 1936)

Wright, George G., Ph.D. Camp Detrick, Frederick, Md. *Chief, Special Procedures Branch, S-Div.* **(6,** 1943)

Wright, Harold N., Ph.D. Univ. of Minnesota, Minneapolis. *Prof. of Pharmacology.* **(3,** 1931)

Wright, Lemuel D., Ph.D. Sharp and Dohme, Inc., Med. Research Div., Glenolden, Pa., *Dir. of Nutritional Research.* **(2,** 1946; **5,** 1946)

Wright, Paul A., Ph.D. Univ. of Michigan, Dept. of Zoology, Ann Arbor. *Asst. Prof.* **(1,** 1950)

Wright, Sydney L., Ph.D. Endsmeet Farm, Wyncote, Pa. **(2,** 1933)

Wu, Hsein, Ph.D. Med. College of Alabama, Birmingham 5. *Visiting Prof. of Biochemistry.* **(2,** 1950)

Wulff, V. J., Ph.D. Univ. of Illinois, Dept. of Zoology and Physiology, Urbana. *Asst. Prof. of Physiology; Special Research Asst.* **(1,** 1949)

Wulzen, Rosalind, Ph.D. Oregon State College, Corvallis. *Asst. Prof. of Zoology.* **(1R,** 1916)

Wyckoff, Ralph W. G., Ph.D. USPHS, Natl. Insts. of Health, Bethesda, Md. *Sr. Scientist.* **(6,** 1940)

Wyman, Jeffries, Jr., Ph.D. Harvard Univ., Biological Labs., Cambridge, Mass. *Assoc. Prof. of Zoölogy.* **(1,** 1928)

Wyman, Leland C., Ph.D. Boston Univ., College of Liberal Arts, 675 Commonwealth Ave., Boston, Mass. *Prof. of Biology.* **(1,** 1927)

Wynne, Arthur M., Ph.D. Univ. of Toronto, Dept. of Biochemistry, Toronto, Ontario, Canada. *Prof. of Biochemistry.* **(2,** 1940)

Yager, Robert H., V.M.C. Army Med. Dept. Research and Grad. School, Army Med. Center, Washington 12, D. C. *Lt. Col.; Dir., Veterinary Div.* **(6,** 1950)

Yerkes, Robert M., Ph.D. Yale Univ. School of Medicine, New Haven, Conn. *Prof. Emeritus of Psychobiology, Yale Univ.* **(1R,** 1904)

Yonkman, Frederick F., Ph.D., M.D. Ciba Pharmaceutical Products, Inc., Summit, N. J. *Dir. of Research at Ciba; Lecturer in Pharmacology, Columbia Univ. College of Physicians and Surgeons.* **(3,** 1931)

Youmans, John B., M.D. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Dean.* **(5,** 1948)

Youmans, William Barton, Ph.D., M.D. Univ. of Oregon Med. School, Portland. *Prof. of Physiology.* **(1,** 1939; **3,** 1949)

Young, A. G., Ph.D., M.D. 520 Commonwealth Ave., Boston, Mass. *Asst. Prof. of Therapeutics, Boston Univ. School of Medicine; Med. Dir. of Corey Hill Hospital, Brookline.* **(3,** 1925)

Young, E. G., Ph.D. Natl. Research Council of Canada, Maritime Regional Lab., Halifax, N. S. *Director.* **(2,** 1925)

Youngburg, Guy E., Ph.D. Route 2, Box 268 Mesa, Ariz. *Emeritus.* **(2,** 1927)

Youngner, Julius Stuart, M.S., Sc.D. Univ. of Pittsburgh, School of Medicine, Virus Research Lab., Pittsburgh, Pa. *Asst. Research Prof. of Bacteriology.* **(6,** 1950)

Yuile, Charles L., M.D., C.M. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Assoc. Prof. of Pathology.* **(4,** 1941)

Zamecnik, Paul, M.D. Massachusetts General Hospital, Fruit St., Boston 14, Mass. *Asst. Prof. of Medicine and Tutor in Biochemical Sciences, Harvard Univ.* **(2,** 1950)

Zapp, John A., Jr., Ph.D. 916 Harper Ave., Drexel Hill, Pa. *Asst. Dir., Haskell Lab. of Industrial Toxicology, E. I. duPont de Nemours & Co.* **(1,** 1950)

Zarrow, M. X., Ph.D. Purdue Univ., Dept. of Biological Sciences, Lafayette, Ind. **(1,** 1949)

Zechmeister, L., Dr. Ing. California Inst. of Technology, Pasadena. *Prof. of Organic Chemistry.* **(2,** 1941)

Zeckwer, Isolde T., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Assoc. Prof. of Pathology.* **(1,** 1934; **4,** 1927)

Zeidman, Irving, M.D. Univ. of Pennsylvania School of Medicine, Dept. of Pathology, Philadelphia. *Associate.* **(4,** 1949)

Zeldis, Louis J., M.D. Brookhaven Natl. Lab., Med. Dept., Upton, Long Island, N. Y. *Pathologist, Div. of Pathology and Brookhaven Natl. Lab. Hospital.* **(4,** 1945)

Zilversmit, D. B., Ph.D. Univ. of Tennessee, Dept. of Physiology, Memphis 3. *Instructor.* **(1,** 1949)

Zimmerman, Harry M., M.D. Montefiore Hospital, Gun Hill Rd., New York City 67. *Chief, Lab. Div.; Prof. of Pathology, College of Physicians and Surgeons, Columbia Univ.* **(4,** 1933)

Zirkle, Raymond E., Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Botany and Dir. of Inst. of Radiobiology and Biophysics.* **(1,** 1948)

Zittle, Charles A., Ph.D. U. S. Dept. of Agriculture, Eastern Regional Research Lab., Philadelphia 18, Pa. *Chemist, Protein Div.* **(2,** 1946)

Zucker, Marjorie B., Ph.D. New York Univ. College of Dentistry, Dept. of Physiology, 209 E. 23rd St., New York City 10. **(1,** 1947)

Zweifach, Benjamin W., Ph.D. New York Hospital and Cornell Univ. Med. College, Dept. of Medicine, 525 E. 68th St., New York City 21. *Asst. Prof. of Physiology.* **(1,** 1945)

Zwemer, Raymund L., Ph.D. 5003 Battery Lane, Bethesda 14, Md. *Chief, Science Div., Library of Congress, Washington, D. C.* **(1,** 1930)

SUMMARY OF MEMBERSHIP

The American Physiological Society	1238
American Society of Biological Chemists	882
American Society for Pharmacology and Experimental Therapeutics	458
The American Society for Experimental Pathology	352
American Institute of Nutrition	357
The American Association of Immunologists	384
Total membership of Federation	3671

DECEASED MEMBERS

Babkin, B. P. (**1,** 1924) May 3, 1950
Baudisch, Oskar (**2,** 1931) March 28, 1950
Bazett, Henry C. (**1,** 1921) July 11, 1950
Boivin, Andre (**6,** 1949) March 1, 1950
Cope, Otis M. (**1,** 1929) January 28, 1950
Emmett, Arthur D. (**2,** 1908; **5,** 1933) June 11, 1947
Friedemann, Ulrich (**6,** 1938) November 15, 1949
Gray, Samuel H. (**4,** 1939) August 18, 1949
Groat, William A. (**6,** 1917) 1945
Gutierrez-Noriega, Carlos (**3,** 1948) November 1950
Haythorn, Samuel R. (**4,** 1925) December 6, 1949
Hertz, Saul (**4,** 1935) August 2, 1950
Howe, Percy R. (**5,** 1935) February 28, 1950
Kurotchkin, Timothy J. (**6,** 1946) April 29, 1949
Lehmann, Gerhard (**3,** 1939) November 1948
Munro, F. L. (**2,** 1948) April 8, 1950
Murphy, James B. (**4,** prior to 1920) August 24, 1950
Pemberton, Ralph (**5,** 1933) June 1949
Perlzweig, William A. (**2,** 1924; **5,** 1944) December 10, 1949
Petersen, William F. (**4,** 1923) August 21, 1950
Pohlman, Augustus G. (**1,** 1934) March 31, 1950
Reed, Howard S. (**2,** 1909) May 12, 1950
Robbie, W. A. (**1,** 1947) September 7, 1949
Stillman, Ernest G. (**6,** 1930) December 16, 1949
Toomey, John A. (**6,** 1943) January 1, 1950

R. W
E. L.

A. E

T. D

R. D
J. M.
E. B
R. L

J. S.
W. W

R. A

L. I

A. F

B. C
A. L

J. T

J. E
P. I
F. E
M. C
A. I

A. I
B. A
A. I
F. I
O. I
H. I
J. I

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